

# SOUTHERN TEXTILE BULLETIN

VOL. XX.

CHARLOTTE, N. C., THURSDAY, OCTOBER 7, 1920

NUMBER 6

## PALMER Forced Draft Burner System

*The Most Modern and Economical Coal Fuel Burning System Made—Soon Pays For Itself out of Saving of Coal*

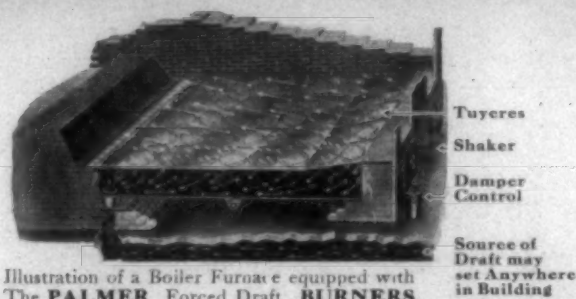


Illustration of a Boiler Furnace equipped with The PALMER Forced Draft BURNERS

If boilers are overloaded or if you have heavy peak loads, this system will take care of same with ease. Also gives you a practically even boiler pressure, even with inferior grades of coal, which so many have to accept. Slack coal can be used with good results as we have no ash-pit loss with this system. Neither do we heat any excess air as no air enters furnace except as fed in mechanically and when steam has reached the desired point the draft automatically cuts off and enters again as soon as steam begins to drop. Two years' free upkeep.

Will Pay Consumers of Steam from 50% to 100% Annually on Their Investment.

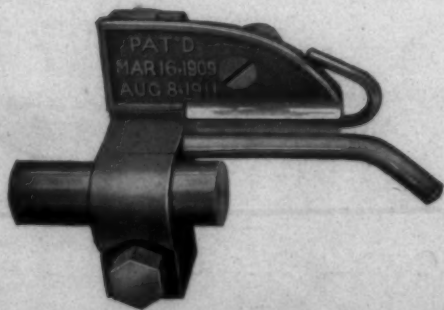
### A Few Users of the Palmer Forced Draft Burner System:

Wenonah Cotton Mills.....	Lexington, N. C.	Puritan Cotton Mills.....	Fayetteville, N. C.	Rhode Island Cotton Mills.....	Spray, N. C.
Dacota Cotton Mills.....	Lexington, N. C.	St. Pauls Cotton Mills.....	St. Pauls, N. C.	Nantucket Cotton Mills.....	Spray, N. C.
Nocomis Cotton Mills.....	Lexington, N. C.	White-Williamson Co.....	Saxapahaw, N. C.	American Warehouse Mills.....	Spray, N. C.
Edna Cotton Mills.....	Reidsville, N. C.	Limestone Cotton Mills.....	Gaffney, S. C.	Belwill Cotton Mills.....	Wilmington, N. C.
Onelda Cotton Mills.....	Graham, N. C.	Jackson Cotton Mills.....	Iva, S. C.	Delgado Cotton Mills.....	Wilmington, N. C.
Carolina Cotton Mills.....	Burlington, N. C.	Covington Cotton Mills.....	Covington, Ga.	Independent Ice Co.....	Wilmington, N. C.
Belmont Cotton Mills.....	Graham, N. C.	Pacolet Mfg. Co.....	Pacolet, S. C.	Virginia Cotton Mills.....	Swepsonville, N. C.
Deep River Cotton Mills.....	Randleman, N. C.	Barrow County Cotton Mills.....	Winder, Ga.	Sibley Mfg. Co.....	Augusta, Ga.
Minneola Cotton Mills.....	Gibsonville, N. C.				

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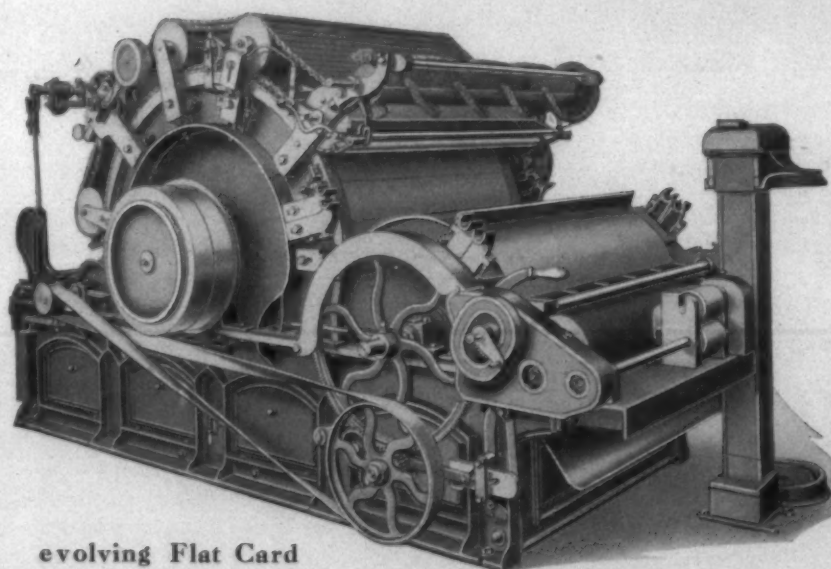
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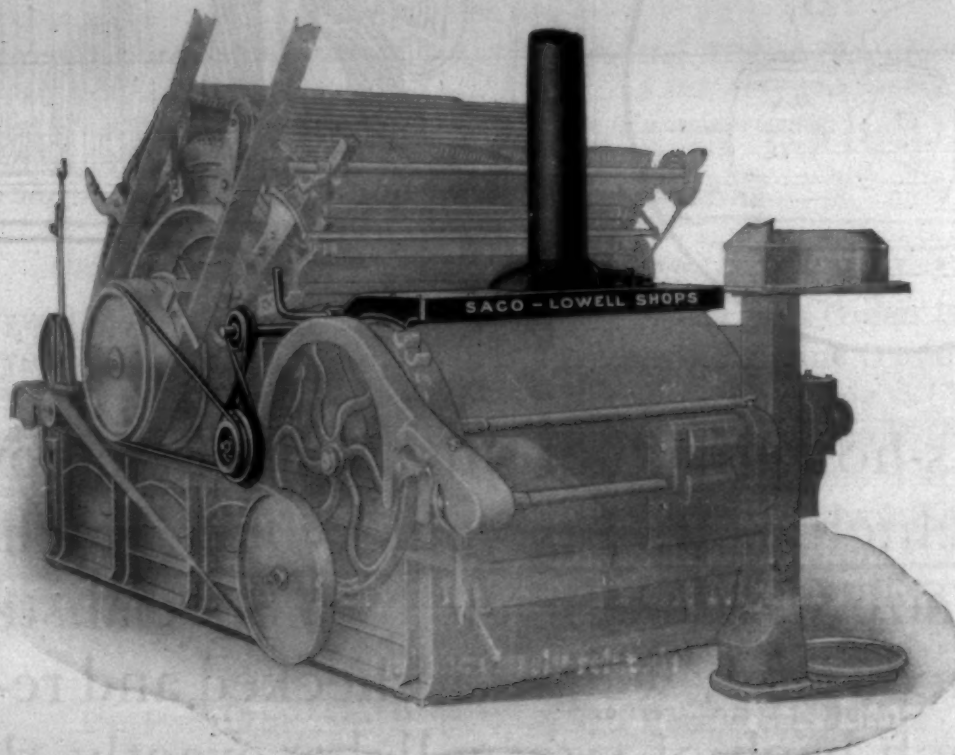


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The types included in their manufacture represent such a variety as:

Du Pont Crystal Violet Powder  
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and the closely related:

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# SOUTHERN TEXTILE BULLETIN

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## Development of The Aniline Dye Industry

(From The Exposition Booklet, Published by the National Aniline and Chemical Company, Inc.)

When Eve first awakened to conscious life in the Garden of Eden, she probably greeted the iridescent colors of the dawn with a happy laugh, and watched the sun throw his golden robes over the purple vales of Kornah with a heart full of wonder and worship.

From those dim days to the present time, color has been to the mind of man what salt is to his food. From the white spaces of the arctic regions to the humming jungles and swamps of tropic lands; from infancy to old age; every man, woman and child use color in some form or another, in their daily life. There are races which do not use cotton, races which do not use wool or silk, but there are none which do not make some attempt to distinguish and beautify their clothing, their homes, their weapons, or even their tombs by the uses of color.

On some of the long buried ruins of ancient cities, in the sand hidden tombs of Egypt, and on the rocks of Central America, colors are still found which are the despair of the modern colorist, thousands of years after the hands which mixed and applied them have been folded in the dust of ages. The beautiful shades and tints of many of the Eastern rugs and carpets, still brilliant, after hundreds of years of exposure to sunlight and wear in the mosques and bazaars of the East, after transportation back and forth by the caravans of Arabia and Syria, show colors that are the priceless characteristics of the rugs from Daghestan, Bokhara, Candahar and Kurdistan.

The old dyemasters knew the art of the juxtaposition of colors, the principle of saturated shades, and the results we see today in these rugs are attributable to this knowledge rather than to the merits of the dyes used.

Time was not an element of consideration in the economic conditions of those days that it is now, and if it was necessary to build up shade upon shade on a skein of wool, in order to obtain a desired result, the leisure and labor to do it were ungrudgingly given. Instinct-

ively, they knew the value of color combinations; that a base of delicate violets or pinks would glow through brilliant touches of color like the translucent tints of a seashell or the opalescent after-glow of the sunset.

Those Eastern dyes were natural dyes, made from the leaves and barks of vegetable growths found in the fields and forests of the lands where weavers sat cross-legged at their hand looms, and patiently picked in colored thread after colored thread, figure after figure, until the whole beautiful scheme was developed.

Through the Middle Ages down to the Colonial infancy of our own country, nature provided the juices and extracts by which doublet and garbaldine, farthingale and homespun, were beautified, and as man learned to travel further afield for his needs, the forests of Central America and the acia thickets of India were made to yield their toll for the color needs of man.

Juniper and pokeberry, elderberry and lichen, cutch and logwood, were in turn called upon for their tribute of tints, and the hidden secrets of the coal mine were as yet unknown. Up to the middle of the nineteenth century the indigo of Bengal, the madder of the East Indies, and the cochineal of the Canary Islands, were the chief dependence for brilliant blues, reds and scarlets, while for the sober hues of our forefathers, drabs and browns and greens, the sumac and black oak of our own fields and forests yielded their bounty.

In 1856, a young English chemist, William H. Perkins, while experimenting with the distillation of coal-tar, accidentally discovered that a certain reaction yielded a wonderful mauve dye. At that moment the coal-tar dye industry, with its more than one thousand individual colors, and its tens of thousands of possible shades, was born, and thus to an English chemist belongs the credit of first unlocking Nature's hidden sunlight.

For a few years after this discovery, considerable progress was made in developing this branch of science by English and French chemists, and additional colors were produced and perfected.

Then came the War of 1870-71, and as one of the consequences of this brief struggle came the unification of Germany which gave rise to the Imperial German Patent System, which with other legislation greatly encouraged the development of organic chemical and dyestuff research in that country. From that time until 1914 the story of the dyestuff industry became German.

Full credit must be given to the characteristic thoroughness of these people for research, backed by the powerful impuse of their Governmental support. New methods of treatment were devised, combinations of reactions were created, manipulations of temperatures and conditions of precipitation and crystallization were developed, which finally resulted in a vast line of dyes for cotton, wool, silk, leather and paper, on which the industries of the world became chiefly dependent.

Enormous color making establishments came into existence in Germany. Hundreds of chemists, and thousands of workmen were employed. The ramifications of this Teutonic giant extended to every quarter of the globe. Great Britain, France and the United States were content to leave this control in their hands, and but little effort was made after 1875 to develop the coal-tar dye industry in these countries until the outbreak of the European War.

There is another aspect of the situation, however, which is of vastly more importance than that of supplying our industries with their color requirements; it is one that involves the question of our national life and the preservation of our independence.

The nation which makes its own coal-tar dyestuffs for the days of peace, also makes its own munitions for the days of possible war, and that nation which has supinely allowed another to monopolize its color requirements stands naked and helpless when the storm of war breaks.

The same methods, the same plants, the same processes, which produce the violets and blues, the delicate heliotropes and pinks, the soft greys and lavenders, which make the boardwalk at Atlantic City

a riot of exquisite color harmonies, can be changed over night to make the picric acid and tri-nitro-toluol with which that kaleidoscope of beauty can be instantly blown out of existence.

When the European war made it impossible to obtain further dyestuffs, our color using industries were immediately confronted with a serious situation. With the prospect of a long war, there was no source of supply on which our manufacturers could depend other than their own store-rooms, and such stocks as might still be held by the dealers and import houses. Prophecies were freely made that we must be content with a "white world," with color eliminated from our daily lives until peace was restored and the currents of commerce again flowed freely through the customary channels.

The very floors of mill store-houses and warehouses were scraped for color; all sorts of combinations of the remnants of foreign origin were mixed and compounded to produce desired shades, regardless of the original purposes for which they were intended or their suitability for the fabrics to be dyed.

Our color using industries were forced to revert to the use of natural dyestuffs. Here again, difficulties were encountered in that the machinery equipment in the mills was, for the most part, not readily adapted to the use of natural dyestuffs, and the mechanical industries, under the pressure of war demands, were so far behind in their deliveries that it was practically impossible to obtain necessary mechanical equipment.

Logwood, quercitron, fute and other natural dyewoods came into a new and widespread use overnight. Immediately the prices of these commodities soared to heights never previously known. The logwood forests of Mexico, Jamaica and Haiti were ransacked with feverish haste, and without any intelligent attempt to separate or grade the various kinds of wood. Indeed, the actual cutting and barking was done in the crudest manner. To add to the difficulties, the demands made by the war conditions on the available shipping facilities rendered it im-



possible to obtain even such supplies as were available. Prices became abnormal, supplies were exhausted, culch, hypernic and other Eastern woods disappeared from the market, and our mills were compelled to work under the most difficult conditions.

In the meantime a vast amount of capital was invested in the development of our neglected coal-tar industry. Chemical works and manufacturing of dyestuffs sprang up all over the country, some well conceived and adequately equipped, others obviously temporary makeshifts designed for extracting the greatest profit from the situation while conditions lasted. It is undoubtedly true that dyes were made and sold during this time which were not comparable in point of brilliancy and fastness with those previously imported. The inevitable result was to create an impression in the minds of the public that dyes produced in America were not equal in value to those produced abroad. It should be remembered that many of the unsatisfactory results obtained during the war years were the outcome of inexperienced and unintelligent compounding, and the faulty use of dyes in themselves good, but which were gathered by people who did not understand the dyestuff business.

When the war broke out there were five American concerns engaged in the production of coal-tar products, depending for the most part on imported raw materials, and subject to the keen competition of foreign markets.

These five concerns constituted

the only foundation on which an American dyestuff industry could be based. Before they could be developed sufficiently to meet the situation two other industries, the manufacture of coal-tar crudes and the intermediate products obtained therefrom, had to be created. Our Government made energetic efforts to establish these preliminary industries in order to meet the demands for munitions, and naturally these demands had the first and paramount call.

In 1917 three of the above mentioned five concerns were combined with three other chemical interests manufacturing the necessary acids, alkalies, and coal-tar products, under the name of the National Aniline & Chemical Company, Inc. This new organization immediately proceeded to develop its plants at Buffalo, Marcus Hook, Wappingers Falls and Brooklyn, and though its extensive and well equipped research and manufacturing laboratories, was enabled to work out successfully the problem of supplying, in adequate quantities and qualities, a wide range of dyes of which the country was in urgent need.

The National Aniline & Chemical Company, Inc., is today the largest maker of coal-tar dyestuffs in the Western Hemisphere, which taken together with those other coal-tar products, form America's first line of defence in time of peace or war.

**Can't See Anything But Good Business.**

"We have seen propaganda of all

kinds, some of it pointing to lower prices and other items showing that there will be either no lowering of prices or that there will be higher prices," says a hosiery manufacturer quoted in a market service letter issued by the National Wholesale Dry Goods Association.

"This morning we read in the New York paper that one of the large New York dry goods houses is openly predicting a boom in all lines of the dry goods business in the next thirty days. Certain it is that retailers have been doing good business throughout this country as a general proposition.

"The steel trade is running full blast and the farmers are producing the biggest crop of our history. With those fundamental features, how can we help having good business when it once opens up and we get past this psychological fear of drastically lower prices?

"It is hard to see how there can be further cutting of prices of properly made merchandise. With so many manufacturing plants shut down entirely or with their production curtailed it would seem as if there was a definite danger of a real shortage of merchandise this fall.

"We believe that advancing prices are undesirable, dangerous and should be avoided. We also feel that declining prices, particularly if too drastic, are just as serious a menace. We believe that prices should be brought downward gradually and orderly, but we cannot forget that so many items entering into the cost of merchandise have so definitely and permanently increased

ed in cost that prices cannot permanently decline as far as we might like.

"We refer to increased transportation charges, increased cost of coal and many other items of similar character which are not going to decline very readily until there is a revision downward of wages which must be a gradual development. It is certainly a time to proceed with full thought and consideration, and is not a time to overbuy or speculate.

"But, we must all remember that it is necessary to buy and sell merchandise in order to stay in business and take care of our overhead charges."

#### Czechs Now Have 75 Per Cent of Austrian Spindles.

London — Czecho-Slovakia, since the war, has taken over about 75 per cent of the spindles which were, formerly, in Austrian territory, and this brings the total number of spindles up to 3,565,000. It is reported that over 130,000 power looms are now running; this will affect the textile markets of the world to a small degree, it is said, as prior to the war Austria consumed 75 per cent of her total output of cotton manufactures among a population of 54,000,000, while the new State will have three parts of the total spindles to serve a population of only 13 or 14 millions, and will have to find an outlet for the greater part of her productions, if the statistics in the past are to serve as a guide.

## MONTGOMERY & CRAWFORD

### SPARTANBURG, S. C.

You can control all rope stretch in the English system rope drive by simply twisting this coupling with rope in position on the puleys, thus saving all splicing costs and delays. Stretch is controlled by twisting up the strands of the rope, which also maintains the original rope diameter. An internal lock in the coupling holds the rope to the shorter length.



The coupling is furnished only with the Hunt "Stevedore" brand, manila transmission rope, plumbago and tallow laid. Catalog describing the coupling and "Stevedore" transmission rope sent on request.

#### HOLYOKE BELTING

Try a roll of "Submarine" W. P., the original and best water-proof belt on the market.



#### U. S. BOBBIN & SHUTTLE CO.

##### Quality Goods

Bobbins, shuttles and spools of every description. Inquiries solicited for new equipment.



#### "DOUBLES DAYLIGHT"

An intensely white oil paint for mill and factory interiors. Eliminates the dark corners, feeds up production and makes the most of the available daylight.

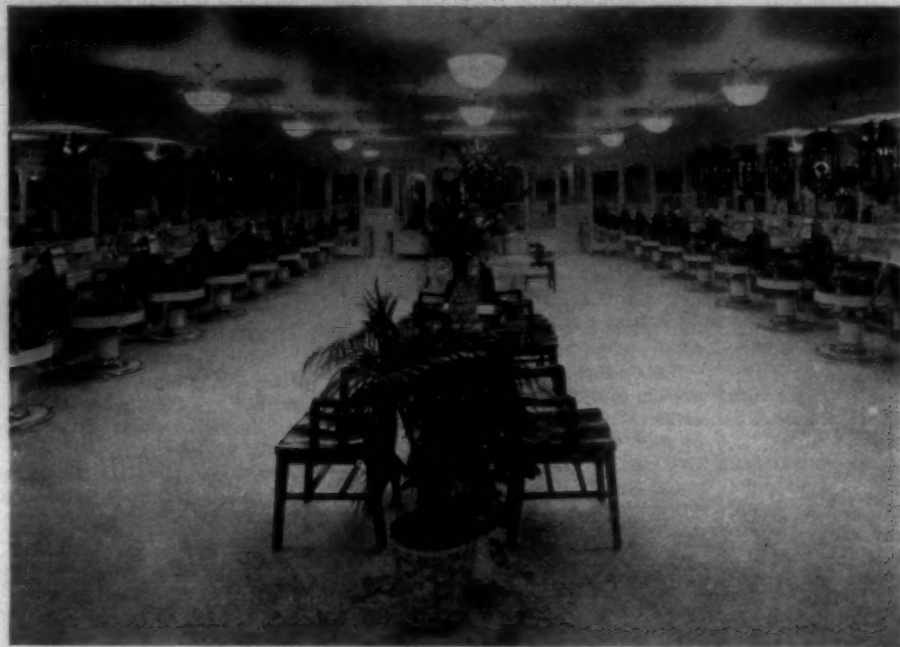
Du-Lite will not chip or flake off—can be repeatedly washed and will not yellow with age.

Supplied in Flat, Eggshell and Gloss Finish.

A sanitary and well lighted factory is a paying investment. Du-Lite will do it.



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No community work is complete without a modern barber shop. Ask us about a "Tailor Made" outfit.

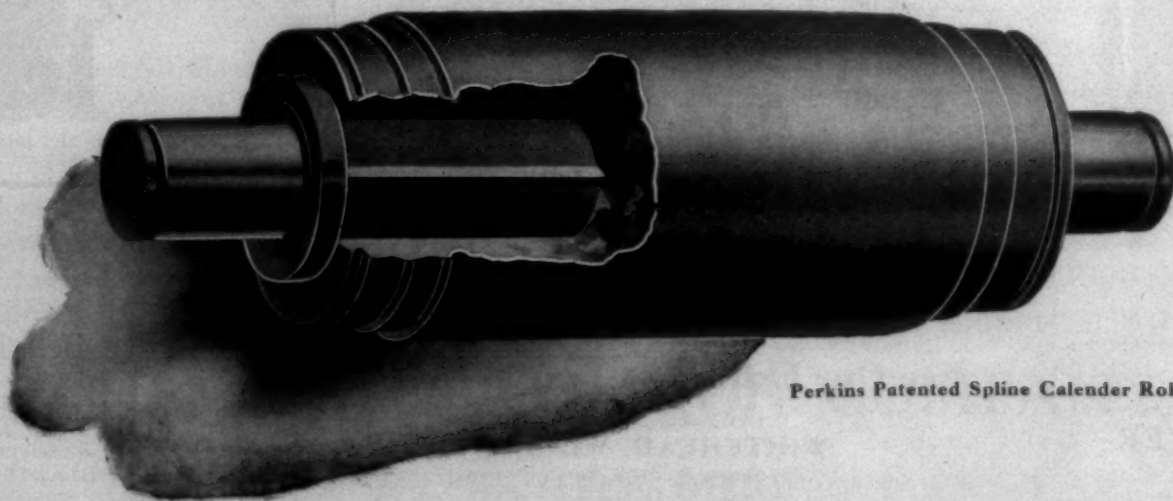
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## What Do You Know About Calender Rolls?

For instance, did you know that the Perkins Patented Splined Calender Rolls are the product of over forty years of successful manufacturing methods and that the Patented Spline positively prevents slipping and turning on the shaft? We can supply this Patented Spline to your old shafts when refilling Rolls just as well as we can put in a new Roll. Our Rolls are famous for their durability and efficiency of operation. We have acquired an interesting fund of information about Calender Rolls that is yours for asking. Write for Special Circular and state what size Rolls you are using.



**Perkins Patented Spline Calender Roll**

**B. F. PERKINS & SON, Inc**

8 Crescent Street,

HOLYOKE, MASS., U. S. A.

### World Cotton Meeting Plans Are Blocked Out.

Washington.—Plans for the World Cotton Conference to be held in Manchester, England, next summer, were mapped out at a meeting of the United States section of the executive committee of the conference, held here.

Four new members were elected to the committee, which divided the general conference into 13 voting groups. Fuller E. Calloway, of La Grange, Ga., was elected chairman of the committee and John T. Scott vice chairman. Formal approval was given to the date selected for the meeting of the conference, from June 13 to June 22, 1921.

A summary of the work done by the committee at its meeting here was announced by Rufus R. Wilson, executive secretary of the conference. The conference will open Monday, June 13, with a morning and afternoon session in Liverpool, where three days will be spent; morning and afternoon sessions will be held in Manchester, beginning on Thursday. Wednesday will be devoted to entertainment by Liverpool organizations; and Saturday, Sunday and Monday following, have been set aside for entertainment by Manchester organizations. The final session of the conference will be held Wednesday, June 22, at which time the report of the 13 voting groups will be received and officers elected.

As arranged by the executive committee here today, the voting groups will be divided as follows:

Growers, ginner, seed crushers

and manufacturers of seed products, compressors and warehousemen, cotton merchants, transportation, banking and insurance, research and statistics, spinners, manufacturers, finishers, including, bleachers, dyers and printers, textile merchants and converters, and manufacturers of textile machinery.

Daniel E. Dooty, research and statistics; J. Arthur Wood, manufacturers; Thomas Grant, finishers, and E. Kent Swift, manufacturers of textile machinery, were elected to membership on the executive committee.

The make-up and chairmen of the various committees were decided upon, with the exception of the committee on the production of cotton, the membership of which is to be determined later, the committee is to have an American chairman, however.

There will be 12 Americans, three English and two from other countries in the membership of the committee on the ginning of cotton, with an American chairman.

The committee on seed crushing and the manufacture of seed products will be composed of six Americans, six English and three members from other countries, with an American chairman, while the committee on compressing and warehousing will be composed of 10 American members, three English and two from other countries, with an American chairman.

The committee on the purchase and sale of cotton will have six American members, six English, and three from other countries with

joint chairmen from England and America.

There will be six American members, six English, and six from other countries in the membership of the committee on transportation, the head of which will be an Englishman.

The committee on banking and insurance also will have joint American and English chairmen, with a membership composed of six American, six English members and three from other countries.

There will be eight American members on the committee on the spinning of cotton, with eight English, and five from other countries, with an English chairman.

There also will be an English chairman of the committee on the manufacture of cotton goods, which will be composed of eight American and eight English members with five from other countries.

The committee on the merchandising of cotton products will have joint American and English chairmen, with six American and six English members and three from other countries.

An English chairman will preside over the committee on the finishing of cotton goods, which will be composed of six American and six English members, with three from other countries.

The committee on research and statistics will be headed by a chairman selected from one of the nations of Europe, with a membership of six Americans, six English and three from other countries.

The committee on the manufac-

ture of textile machinery will be composed of six English members and three from other countries, with joint chairmen from America and England.

The program of the conference calls for five sessions to be devoted to discussion of papers; five sessions to be devoted to reports of committee and a final session at which will be received the reports of acting groups and the election of officers will be held.

### Providence Intervened, or a Bird of Paradise.

The butcher grumbled angrily to himself as he put up the 10-cent meat order.

"Cheap skate," he muttered, "if she ever let loose of a dollar—"

Just then a small boy burst excitedly in the door.

"Hey," he shouted, "are you putting up mamma's order of cat meat?"

"Yeah," replied the butcher, "and all I gotta say is—"

"Unwrap it right away," announced the boy, "Kittys' caught a sparrow."—New York Globe.

### O Husband, Be Careful.

West—She never said a word; just stood there and listened to her husband talk.

Western—Man! Man! There isn't any such woman!

West—Oh, yes, there is! Her husband was talking in his sleep!—Judge.

# HYDRO EXTRACTORS



Type B Motor Driven  
Self Balancing

## SIZES

30, 36, 42, 48, 54, 60"

Southern Representative  
**E. S. PLAYER**  
GREENVILLE, S. C.

## "Hercules"—Electric

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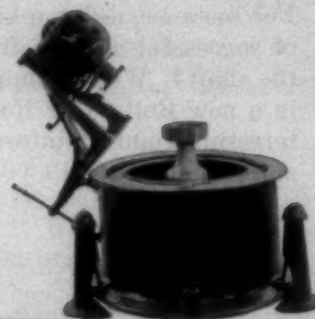
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Only Hercules Extractors  
have Motors mounted on  
Tilting Bracket to Facilitate  
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Bearings

Direct Motor  
or  
Belt Drive

Eastern Representative  
**F. A. Tolhurst**  
40 S. SEVENTH STREET  
PHILADELPHIA, PA.

**EAST JERSEY PIPE CO.** SUCCESSORS TO **GILLESPIE MOTOR CO.**  
PATERSON, N.J.



**Glenn Lowry Fair Big Success.**

If crowds testify for success, then the Big Community Fair held last week in the gymnasium of the Y. M. C. A. building attained a high measure of success. Thursday night, Friday afternoon and evening and Saturday were the big days. The spacious big hall lent itself admirably to the decorations in national colors. In the center of the building en masse was the banked exhibit of potted flowers. Under the arch at one corner sat the fine Glenn-Lowry Y. M. C. A. Concert Band. Around the walls in booths were exhibits in all kinds of needle work, garden products, canning, baking, relics, various crafts of the girls' department, and the finished products of the Glenn-Lowry Company.

Many visitors said of the needle work exhibit that in design, color, and artistic work the ladies' needle-work exhibit was as good as that shown by the various state fairs. Relics of the past and curios from other countries created much interest. One unique article was a prize given for fancy work at the first state fair in the State of South Carolina. A collection of four hundred coins was also in a class to itself. Other relics and curios were too numerous to mention.

In the canning exhibit were special packs of peaches, jelly clear as crystal, and all kinds of fruit and vegetables. Wonders of the garden products were the enormous pumpkins and huge peppers. Cakes, candies, and pies in the cooking booth invited covetousness. Following the beautiful exhibit of all the Glenn-Lowry mill products was a special booth of simple and of elaborate work in articles made from the mill cloth. This work was done by the Senior Camp Fire and showed variety in each piece where the new patchwork, stencil, or embroidery

or plain bindings were used in the plain or dyed mill cloth. The basketry exhibit by the two Junior Camp Fires and the Hearth Fire Girls was a marvel in design and work. Large serving trays were refused to the visitors who wished to buy them at fancy prices. Mounted kodak pictures in sets of fifties showed the many outings and good times of these girls' clubs. One hundred neatly done pictures in passapartout were on sale. The out-of-door corner with the pine trees and the small tent showed the out-of-door life of the Camp Fire Girls as did also the collection of "Trees growing in and around Whitmire." Ladies in charge of their booths were dressed in patriotic costumes, girls in Camp Fire ceremonial dress presided over the girls' work.

On Friday night of the Fair the movie auditorium opened its doors to pictures illustrating health crusade and anti-tuberculosis campaign, illustrated the manufacture of lace curtains, proper canning of fruit and vegetables. At all "open hours" the new Library complete in all cozy furnishings, in magazines and books was also open to the visiting public. Expressions everywhere in the community show a spirit of pride and progress. "Just wait and see what we will do next year," they say.

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J. H. Banister .....	Carder
J. M. Addison .....	Spinner
A. R. Williams .....	Weaver
H. M. Banister .....	Loom Fixer
J. E. Casey .....	Loom Fixer
W. A. Davidson .....	Loom Fixer
J. H. Baker .....	Cloth Room
J. A. McCallister .....	M. M.

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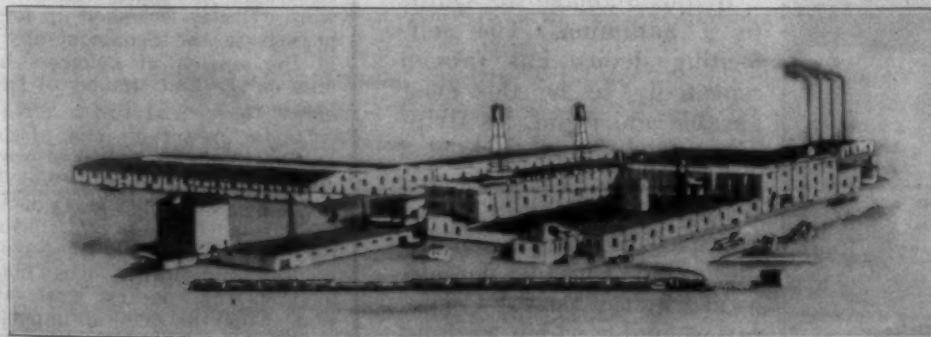
South Carolina

B X C

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# U. S. Dye Makers Seek Protection

That the United States Senate in its meeting next December will pass the bill protecting the manufacturers of dyestuffs in the country is the belief of the Committee on Legislation, which made its report to the American Dye Institute meeting held at New London, Conn., this year. The report deals with the progress of the legislation through the House and the Senate Finance Committee, where a qualified embargo was substituted for the license plan of the House bill, and in this form was unanimously submitted to the Senate.

The report outlining the work of the Committee on Legislation says: "Immediately upon the report of the bill it became the object of persistent criticism and attack from from its opponents.

"It would be useless at this time to review in detail the objections urged by the opponents of the Senate bill. Your committee and its counsel were constantly available to analyze from both the manufacturing and legal viewpoint the numerous proposals to amend the bill. Save in a few instances, the opposition to the legislation was from the importers who obviously wanted the fullest possible chance to import foreign dyes with which to undersell the American producer, or from that minority of consumers more concerned with an im-

mediate competitive market in dyes than with the establishment of a thoroughly independent and self-sustaining dye industry in the United States. It is fair to say in this connection that there were a few instances where constructive suggestions for changes came from consumers who are in sympathy with the proposed legislation.

"Your committee in presenting the case for the American dye industry to the committees of the House of Representatives and the Senate, proceeded upon the openly declared idea that the testimony of impartial witnesses at the hearings would abundantly establish the fact that an American dye and related coal-tar chemical industry is absolutely essential to the national defense and national welfare, and that the existence of high tariff duties on foreign dyes and intermediates is not by any means enough to protect such an industry in the United States from destruction through foreign commercial attack during the temporary period when it is developing complete production for the country. In other words, your committee proceeded upon the frank theory that a practical embargo against foreign dyes of the same kind and quality as those being produced commercially in the United States is a conceded necessity until our industry is fully de-

veloped.

"You are familiar with the testimony at the hearings and of course know that it was established by the statements of military experts and chemists who have no connection with the dye manufacturers that a complete and self-sustaining dye and coal-tar chemical industry in the United States is a vital necessity for our national defense, national health and general industrial welfare. The completeness with which that truth was brought out is, we are entitled to believe, evidenced by the passage of the bill in the House of Representatives by a substantial majority and by the favorable report of the amended Senate bill by the Finance Committee.

"Notwithstanding the pressure of legislative business in the Senate and the pendency of the Peace Treaty as a continual problem, the Senate by a very substantial majority vote took up the dyes bill for consideration with a view to its passage. With the urgent necessity for providing the necessary appropriations to operate the Government for the current fiscal year supplementing the peace treaty situation, those opposed to the legislation in the form in which it was reported by the Senate committee were able to occupy a sufficient amount of time of the Senate, un-

der existing rules, to make those in charge of the bill appreciate the impossibility of attempting to press the measure for passage.

"At the same time your committee is glad to be able to report that apparently a decided majority of the members of the Senate favor the passage of legislation to protect the American dye industry on the general plan embodied in the pending bill. The essential character of the industry as related to the national defense and national health seems to have been generally accepted, the vote for consideration above referred to clearly justifying such assertion by your committee.

"The great majority of the dye consumers of the country have been vigorously supporting the proposed legislation. These consumers have appreciated that both in the original "license system" proposed by the manufacturers and adopted by the House, and in the "qualified embargo" plan substituted by the Senate committee, adequate provision was made for the consumers to secure from time to time all varieties of foreign dyes when the same kind of satisfactory substitutes are not made in this country.

"The attitude of your committee has been, and in that it knows it has expressed the view of the dye industry, that the consumer must be given ample opportunity to have as full a variety of colors as the consumers of other countries. Co-operation between the manufacturer and the consumer is essential in the dye industry and it is the committee's view that a continuance of the recent co-operation may be looked for from the consumers who have heretofore supported the legislation necessary to develop our industry.

"The adjournment of Congress on June 5 last did not operate to defeat the pending bill. It retains its status as a bill passed by the House of Representatives, reported with amendments by the Senate Finance Committee and on the Senate calendar for consideration. In other words, it may be called up for final passage in the Senate at any time in the session of Congress beginning on the first Monday of December next.

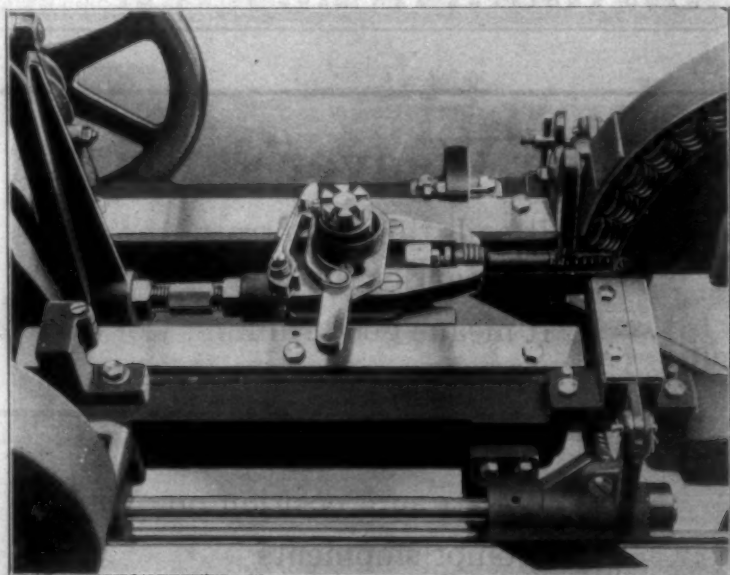
"In the meantime it is, of course, known that the Congress provided an appropriation for the War Trade Board Section of the Department of State so that the dye consumers may import their necessary six months' supplies of dyes not yet made in the country, while at the same time the general importation of foreign dyes to injure or destroy the American producers may be effectively prevented."

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**Siler City, N. C.**

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H. A. Needham.....Carder  
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**CHARLOTTE NORTH CAROLINA**



**American Dyestuffs for the World.**

(By Albert G. Rich, President Pioneer Dyestuff and Chemical Co., Inc.)

As probably almost all of the American public have now come to realize, the situation of the aniline and alizarine dyestuffs has seen a complete reversal from the conditions existing before the war. Up to the time of the entrance of Germany into the world war, we knew of no other condition than that we were obliged to obtain, and were in fact, absolutely dependent upon other countries, mostly Germany, for our supply of dyestuffs necessary for the textile and other trades in this country. At the present time, this condition is completely reversed, for we are in the position today not only of manufacturing many coal tar dyes, but have actually sent them to practically every corner of the globe and have for some time been making regular and considerable shipments to most of the countries of the world.

This is a situation that certainly should make every American proud and naturally everything should be done to rightly conserve and increase this business. In order to do so it is vitally necessary to do business with our foreign friends in the way that they do business in contradistinction, perhaps to the way in which we have been doing business in this country among ourselves. This is becoming increasingly apparent as some other nations are gradually endeavoring to obtain this foreign trade which we

might almost say has been placed in our laps. We, at this time do not wish to dwell upon the matter of credits with foreign nations, although this is a most important factor in the matter of keeping our trade with many of them; nor in the small confines of this article will we dwell upon the peculiarities of the various foreign countries; but we feel that we should emphasize the fact that the best results from our point of view will be obtained by the American manufacturer if he caters even more than in the past, to the particular methods of doing business by the various foreign nations to which he desires to send his goods regularly. For competition will naturally be very much keener in the future as other manufacturing countries are in a position to ship dyestuffs outside of their own country, and it does seem when the opportunity is now here and has actually presented itself, that we should at least make some slight effort, shall we say, to keep some of the trade which we now have. We venture the assertion that unless we do cater more particularly to our foreign friends in their methods of doing business we are liable to lose a large part of what we now possess in the line of a trade with practically all parts of the world.

In speaking, as we have above, of the world market for dyestuffs, we do not for a moment forget the importance of our own consuming domestic trade among the textile and many other trades that regularly use dyestuffs throughout our own

country. From our above remarks we would not wish to imply that we have any thought of neglecting this home consuming market, but it is our pleasure now to emphasize the fact that today the dyestuffs manufactured in this country are being used by all of our foreign countries at least to some extent, and therefore it is our thought that the future of the American manufacturer in this country is most attractive, for he not only has the market for his products throughout the foreign countries but the domestic market is a large and increasing one, and also one that should not be neglected by any manufacturer. It is in this connection a much more stable market than the foreign one; for we can and do learn the exact requirements of our own domestic consumers, whereas we are naturally often handicapped, we might almost say at all times, in the foreign trade; for we cannot be conversant with the exact use and condition under which the products are to be used. We should endeavor for our own sake to increase our knowledge in this respect; our home market at our own doors is one that is known by those who have been in the dyestuff business before the war, for many of them are very familiar with the actual mill conditions among the consumers of the dyes. We feel very strongly that our first duty is to take care of our home requirements and we think the message should be to each and every American dyestuff manufacturer that he should not neglect his

home market.

Just a word here perhaps should be spoken in reference to competition among the various American manufacturers. While we do not for a moment agree with the German methods, yet it must candidly be admitted that in reference to marketing dyestuffs before the war, there were some phases which admit of comparison and a lesson may be learned from them. Inasmuch as there are one thousand different coal tar dyestuffs not including even mixtures, it is readily apparent that there is plenty of room for all of the American manufacturers for many years to come. It is of course true that we naturally have made the simpler colors first, but inasmuch as there is plenty of opportunity for each and every individual manufacturer, are should be taken that the market is not spoiled, as it were, by the manufacturers competing on certain products with each other to the detriment of all, both the consumer and the manufacturer. Because of the large number of individual dyes in pre-war times, certain manufacturers abroad exchanged their various products. This had a most beneficial effect upon all, both from the manufacturers' and the consumers' standpoint, and this of course, obviated the duplication, to a great extent, on the manufacturing plants, and left each maker to go ahead and bend his best efforts on the production of dyes of the best quality and at the proper cost. Should we not, therefore, learn a lesson from this?



NEW national spirit is arising from the ashes of the great war. Americans are beginning to think internationally, and to emerge from the provincialism which was inseparable from the first century's growth of the Republic.

A pride in American quality is taking the place of a parochial indifference to foreign opinion of things we create. American quality is built up on the triple foundation stones of American capital, American labor, and American material.

A new significance is thus given to the term "National Dyes," which means that the wide line of dyes made by the **National Aniline & Chemical Company, Inc.**, are, type for type, the equal of, and in some cases, superior to, any foreign dyes which have been offered in times past on the American market. **Strength, Brilliance, and Permanence** are the characteristics of the colors produced by **National Dyes** on American goods, and are the assurance to the discriminating buyer that the national desire for quality is being adequately safeguarded.

## National Aniline and Chemical Co., Inc.

General Offices

Southern Office and Warehouse

21 Burling Slip, NEW YORK

236 West First St., CHARLOTTE, N. C.

# Chimney Losses Major Item in Waste of Fuel

(By F. F. Uehling, Combustion Engineer, Before Chemical Society.)

The subject of fuel economy is today of greater interest to the fuel consumer than ever before. There are two reasons: First, fuel costs two or three times as much as it did a few years ago, and second, in many instances during the past few years it has been very difficult to get at any price.

The first reason is one that will remain. Prices of fuel, no matter what kind, will undoubtedly stay high, and in all probability will go still higher. The second reason should, however, vanish entirely when once labor and transportation facilities are properly controlled. There is plenty of fuel for all who need it. The fuel given us by nature, ready for use, will last for generations, but even when all our mines are exhausted and our oil fields pumped dry, there will still be enough fuel in some form or another. Mother Nature will at that time again come to our protection with that greatest of her laws, the conservation of matter and energy. Carbon and hydrocarbons are really conserved by her unseen hand, but it remains for man to turn the key which will unlock her great store-room.

The high cost of fuel therefore

provides the principal incentive to save it, and the greater the cost the greater will be that incentive. The two principal factors which enter into the cost of fuel are labor and transportation. Its price to the consumer will be governed by these two charges, plus whatever additional charge competition will permit the mining interests to add. As our resources are depleted, mining will become more difficult and as production moves farther away from consumption, transportation charges are bound to increase. The price of fuel will therefore advance from year to year until finally it will be cheaper to make artificial fuel, such as alcohol. In all probability, however, the cheapest fuel for our principal needs, as long as it lasts, will be that which can be gotten out of the ground in ready-to-use form. That is why it should be made to last as long as possible through the practice of economy. However, since the price of fuel in the future does not seem to interest the present generation, the elimination of unnecessary waste should perhaps even be enforced by law for the benefit of posterity.

No matter how fuel is consumed and no matter what kind of fuel is burned, whether solid, powdered, liquid or gaseous, the biggest loss is

always due to the heat energy wasted up the chimney. In this connection it might be well to quote the following very conservative statement from Bulletin No. 205, issued by the Bureau of Mines:

"In the average boiler plant, 35 per cent of the heat in the coal burned under the boilers is lost with the stack gases. That is, out of every 100 tons of coal burned under the boilers, the heat of 35 tons literally goes up the stack. It is this loss that can be greatly reduced, and every effort should be made to do so."

The loss up the chimney, which is always the largest individual loss in any plant, depends for its magnitude on three factors. They are, in order of importance: First, excess air in the products of combustion; second, temperature of the products of combustion; third, amount of unconsumed fuel in the products of combustion.

The excess air in the products of combustion results in loss greater than that from any other source. Every kind of fuel requires a definite amount of air to burn it, the exact quantity depending principally upon the ratio of its carbon and hydrogen. When considering coal, for example, the principal constituent is carbon, every pound of which

requires twelve pounds of air to completely consume or oxidize it. All air that is used above this amount is known as excess air, and when supplied in greater quantities than is necessary to meet the particular conditions of the furnace, in which the fuel is burned, an unnecessary burden is immediately placed on the temperature possibilities of the furnace and the amount of fuel consumed to accomplish a desired result increased in proportion. Even in fairly good practice about twenty-five tons of air is used to burn one ton of coal, and in the more poorly operated plants this amount is often doubled. Twenty-five tons represents a lot of air. Under normal conditions, it occupies a space nearly 16,000 times as large as the coal which it consumes. If this amount of air were contained in a pipe with one square foot cross sectional area, it would have to be long enough to extend nearly from New York to Baltimore. Stated in another way, if the floor of a room were covered with coal to a depth of one foot, the ceiling would have to be three miles high in order for the room to contain as much air as is generally used to burn that amount of fuel. The fact that so much air is consumed in burning one ton of coal is not realized by the

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firemen and the important relation which this huge mass bears to fuel economy is generally not given sufficient thought by his superiors. Although air costs nothing, and is available in unlimited quantities, when used to burn fuel in excess of what is required, as is the case in the average plant, it becomes one of the most expensive raw materials.

All the air that is used in burning coal, whether under steam boilers or for any other process, appears in the products of combustion. If three times as much air is used as is necessary there will be just about three times as much products of combustion as necessary. This gas as it passes up the chimney contains the major portion of the heat that is unnecessarily wasted. Every degree of temperature to which each pound of this gas is heated above the temperature of the atmosphere means about 0.25 heat units that go to waste. The exact amount of heat wasted in this way can be determined by the weight of the products of combustion per pound of fuel burned, and the temperature at which they leave the furnace or enter the stack. Thus, in the average plant, for every ton of coal consumed, from one-third to one-half of the heat it contains is stolen by the products of combustion and dissipated into the atmosphere.

The other loss up the chimney, namely, that due to unconsumed fuel in the products of combustion, is usually not so serious. The old idea that a smoky stack is a sign of tremendous waste is not always true, in fact, whether the gases leaving a chimney are smoky or smokeless, is no indication at all as to the efficiency with which the fuel is consumed. Steam boilers, for example, connected with a stack that does not show the slightest trace of smoke may burn twice as much coal per pound of water evaporated as when smoke is in great prominence. Black smoke is of course unburned carbon, but the amount of carbon in this light and finely divided form that is necessary to give the products of combustion a dark or even a black appearance is generally only a small fraction of one per cent of the actual fuel burned. The additional unconsumed fuel that is apt to be present in the products of combustion is carbon monoxide and hydrocarbons, both of which are caused by an insufficient air supply or the improper mixture of the air with the fuel before it is ignited. Although it is possible for the loss due to this cause to be serious, it is a fact that the average loss from this source can safely be estimated as less than 2 per cent.

To reduce chimney losses to a minimum, no matter what means is used, we must know whether or not the proper amount of air is being supplied, whether or not air has been properly mixed with the fuel before it was ignited and whether or not too much heat is left in the products of combustion as they pass up the chimney. Under all conditions these important facts can be determined with the consistent use of fuel gas analyses and tempera-

ture measurements. The effect of any change in fuel or method of firing, the results of any additions or changes, or the value of any new appliance, can in this way be determined at once, and the best efficiency under the working conditions of any plant can generally be obtained and maintained without the necessity of lengthy and elaborate tests.

With ideal combustion the rate of burning and consequently the amount of heat energy developed in a unit of time would be in proportion to the amount of air supplied. Unfortunately, however, conditions under which fuel is burned are very far from ideal. In every-day practice air is supplied to the fuel in such excessive quantities that only from one-third to one-half of it combines with the combustible to liberate the heat which it contains. In ninety-nine cases out of a hundred this condition is simply due to a lack of facilities for knowing whether the proper amount of air is supplied per pound of fuel consumed. When carbon, the principal constituent of any fuel, is completely burned the result is CO<sub>2</sub>. Complete combustion occurs when air is supplied in excess of what is needed. When, however, the air supply is reduced or regulated to approach that which is theoretically required there is also a possibility of incomplete combustion, due to an insufficient amount of air reaching part of the combustible. When this is the case some of the carbon in the fuel will burn to CO instead of CO<sub>2</sub>. It must be remembered, however, that the big loss in practice is due to excess air and not to an insufficient supply.

#### Weird Tale of Mexican Cotton Tree That Yields Twenty Bales of Fiber to the Acre.

Hildago, Tex.—Growing the ceiba tree on a large commercial scale in the Lower Rio Grande Valley is to be attempted by James Loody, who has just returned here from an extended trip through the State of Tamaulipas, Mexico, which he made for the primary purpose of investigating the fiber-producing possibilities of this tree.

"The ceiba tree produces a fiber that is longer and of finer quality than cotton," Mr. Loody said. "The fiber grows in bolls, the same as cotton, and one tree will give an annual yield of more than one bale of 500 pounds. The tree is hardy, and, so far as I could discover, its product is not subject to any insect pest. In other words, a bountiful crop may be obtained every year. Some of the trees that I saw were 75 to 100 years old, according to the statements of the old people of the communities.

"The tree is found in Tamaulipas and the adjoining States, where it thrives, indifferent alike to continued rains or long periods of drouth, seemingly demanding nothing for its sustenance more than plenty of air, sunshine and tropical heat.

"Up to the present time, so far as is known, the tree has been cultivated solely for shade purposes, but I believe that it is destined to become a great factor in the industrial world. The fiber is fine and silky,



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Blue B O Paste

Newport Anthrene  
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Newport Anthrene  
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"MORSE" is the guarantee always behind our  
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and can be run into threads by being rolled between the fingers.

"An acre of the best land is expected to produce but one bale of cotton, while here we have the possibility of an acre of land being made to produce 20 bales of this fiber, since it is estimated that 20 trees can be grown to the acre. Since the culture of these trees would require a very small outlay, and since the gathering of the crop would be much more inexpensive than the task of gathering a bale of cotton from the fields, it is evident that the profits would be proportionately larger.

"The tree is quite hardy. After it gets well grounded, it needs no more irrigation or other attention. Its growth is rapid, so that it begins to bear in about four or five years. It thrives only in tropical climate, but it is thought the tree would flourish in Southern Texas, about Hidalgo, quite as well as in the State of Tamaulipas.

"This remarkable tree reaches a height of some 40 feet and is flat on top, since the main branches extend horizontally from the gigantic trunk, which is even feet in diameter. From the main limbs innumerable smaller branches extend outward, curving slightly upward, too. The main branches grow low, so that a man of six feet in stature can reach the measily by extending his arms upward at full length. It begins to blossom early in March, although it does not boast a single leaf at the time. In a short time it is covered with thousands of yellowish-white flowers, like magnolia blossoms, although they have not so many petals and have no perceptible odor.

"In two or three weeks the flowers begin to fall off, and are replaced soon by little green bolls, which contain the fiber that is attracting so much attention at present. These bolls grow rapidly, and when full grown are from six to eight inches in length, being two or three inches through and eight to ten inches in circumference at the large top point.

"The covering of this boll is very thick and strong, resembling bark. It is divided naturally into four parts, which are united at the top. This covering or shell falls off shortly after opening, and if the boll is left on the tree to be tossed about by the breeze, it attains in a day or two the size of a man's head. Little by little its fiber is carried away by the wind and floats hither and thither, the delight of birds, who seek it for nest linings, but an annoyance to good housekeepers for miles around.

"In two or three weeks the winds have robbed the tree of all its cotton, and then the leaves begin to appear, gradually clothing the great framework of bare branches with a wealth of rich, glossy leaves, which furnish a dense shade. One giant tree will shelter hundreds of people from the torrid sun, and people and livestock seek the shade of these trees throughout the heated term. The tree in full leaf is said to be one of the most beautiful specimens of the tropical vegetable world.

"The fruit of this strange tree is a fiber of such remarkable fineness and beauty as to resemble eider-

down more, perhaps, than any other material. It has so far been used by the native Indians only for stuffing pillows and coverlets for babies.

"One characteristic of the fiber will be much to the advantage of the grower, and that is that it can be gathered before the shell opens, or in what we may call the green state, without in any way proving detrimental to the product. This will do away with any possibility of loss by the action of the elements such as is suffered frequently by cotton growers.

"It is thought that a sharp pruning-knife device can be adapted easily for gathering this fiber, and that it can be ginned and baled just as the field cotton is prepared for the market."

### Entertainment Program For Exposition Week.

On Tuesday, October 19th, the Cotton Manufacturers' Association of South Carolina will meet in Cleveland Hall, Greenville, S. C., at 10 o'clock in the forenoon for their annual convention. Later in the morning one or more important addresses will be delivered by prominent speakers, to which the business public will be invited.

The entertainments which have been arranged for the exhibitors and members of the Southern Textile Association are briefly as follows:

Thursday, October 21st, there will be a pageant, "The Harvest Moon," given at the U. S. Public Health Service Hospital at Camp Sevier at 7:30 p. m., under the auspices of the American Red Cross. Miss Margaret Shaw is the director. All visitors to the exposition are especially invited. There are seven or eight hundred patients in this hospital, all veterans of the world war. Admission will be free. Automobiles for exhibitors and members of the Southern Textile Association will be at Textile Hall at 7 o'clock p. m., to take all who wish to attend to the camp.

Friday, October 22nd, forenoon opening session of the Southern Textile Association. At 1:30 the ladies of the city will serve a luncheon for the Greater Greenville Association. At 2:30 p. m., there will be an automobile ride around the city.

Saturday, October 23rd, airplane will visit the city, and in the afternoon there will be a football game at Manly Field, Furman University.

All dances and other entertainments in the evening will be informal, and evening dress will not be expected at any of them. In fact, the entertainment committee have agreed that in as much as there will be hundreds of visitors who are "traveling light" that dress clothes will be the exception and none of the committees will wear them.

### Cleghorn Mill.

#### Rutherfordton, N. C.

J. O. Williams.....Superintendent  
J. J. Grayson.....Carder  
J. W. Starnes.....Spinner  
A. S. Jackson.....Night Carder  
John Melton.....Night Spinner  
T. P. Allen.....Master Mechanic



## Superintendents and Overseers

### Montgomery Cotton Mfg. Co.

#### Montgomery, Ala.

T. H. Cordle ..... Superintendent  
J. H. Sterns ..... Carder  
E. B. Miller ..... 2nd Hand Carding  
J. L. Matthews ..... Spinner  
C. P. Cook ..... 2nd Hand Spinning  
G. B. Davis ..... Weaver  
Allen Bates ..... Cloth Room  
Marvin Corbill ..... M. M.

### Cockran Cotton Mill Company.

#### Cochran, Ga.

C. H. Lockman ..... Superintendent  
John Barnes ..... Carder  
S. D. Green ..... Spinner  
E. H. Brown ..... Weaver  
G. H. McRae ..... Loom Fixer  
J. A. Funderburk ..... Loom Fixer  
J. H. Bagley ..... Loom Fixer  
N. J. Eure ..... Loom Fixer  
Geo. Cook ..... Cloth Room  
A. P. Walker ..... M. M.

### Mollohon Mill.

#### Newberry, S. C.

E. S. Summer ..... Superintendent  
W. D. Stilwell ..... Carder  
J. F. McConnell ..... 2nd Hand Carding  
J. H. Hudgens ..... Spinner  
E. D. Risinger ..... 2nd Hand Spinning  
Wade Leaves ..... Slasher  
P. F. Smith ..... Warper  
P. A. Howard ..... Weaver  
L. A. Tew ..... 2nd Hand Weaving  
Ernest McCutchen ..... 2nd Hand Weaving  
John Bolinza ..... Loom Fixer  
Von Dedman ..... Loom Fixer  
E. A. Howard ..... Loom Fixer  
M. B. Brazel ..... Loom Fixer  
J. E. Howard ..... Loom Fixer  
Sim Madox ..... Loom Fixer  
B. P. Rodgers ..... Loom Fixer  
W. H. Callar ..... Cloth Room  
O. S. Summer ..... Shipping Clerk  
L. M. Player ..... Outside Foreman  
O. C. Wilson ..... M. M.  
B. L. Dorrity ..... Cotton Grader

### Consolidated Textile Corporation.

#### Ossifee, S. C.

W. B. Morgan ..... Superintendent  
J. H. Coleman ..... Carder  
David Wrenn ..... 2nd Hand Carding  
Geo. Tickle ..... Spinner  
Will Coffin ..... 2nd Hand Spinning  
Luther Isley ..... Slasher  
R. L. McCommon ..... Weaver  
A. E. Waynick ..... 2nd Hand Weaving  
Geo. Jones ..... Loom Fixer  
L. H. Anderson ..... Loom Fixer  
Elisha Morris ..... Loom Fixer  
Furman Swarengan ..... Loom Fixer  
N. M. Lee ..... Cloth Room  
C. N. Lommer ..... Shipping Clerk  
B. M. Burnette ..... Dyer  
Jas. Sutton ..... Outside Foreman  
P. M. Geringer ..... M. M.

### French Broad Manufacturing Co.

#### Asheville, N. C.

P. J. Bagwell ..... Superintendent  
B. L. Salesbee ..... Carder  
C. L. Anders ..... 2nd Hand Carding  
S. J. Davis ..... Spinner  
K. D. Smith ..... 2nd Hand Spinning  
Tom Parham ..... Slasher  
Herman Hensley ..... Warper

### Star Thread Mill.

#### Athens, Ga.

R. H. Maupin ..... Superintendent  
C. S. Pitts ..... Carder  
B. R. Williams ..... Spinner

### Elmira Cotton Mills Company.

#### Burlington, N. C.

N. A. Gregg ..... Superintendent  
J. W. Engle ..... Carder  
J. W. Engle ..... Spinner  
Floyd Jones ..... 2nd Hand Spinning  
W. T. Hall ..... Weaver  
Charlie Boone ..... 2nd Hand Weaving  
C. A. Dougl ..... Cloth Room  
W. I. Hall ..... Shipping Clerk  
Glyde Murray ..... Dyer  
O. P. Shelton ..... Outside Foreman  
John Price ..... M. M.

### Santee Mills, Orangeburg Branch.

#### Orangeburg, S. C.

R. J. Brown ..... Superintendent  
W. S. Johnson ..... Carder  
Claude McElhann ..... 2nd Hand Card'g  
W. H. Brigman ..... Spinner  
Robt. Kinsey ..... 2nd Hand Spin'g  
E. B. Crosby ..... Slasher  
Viegie Fogle ..... Warper  
C. O. Judy ..... Weaver  
E. C. Browder, Tom Thomas, Frank Mills and A. P. Lott ..... Loom Fixers  
J. H. Lacy ..... Cloth Room  
R. D. Wright ..... Shipping Clerk  
J. K. Lee ..... Outside Foreman  
J. K. Lee ..... Master Mechanic

### Barringer Manufacturing Co.

#### Rockwell, N. C.

W. O. Norris ..... Superintendent  
E. N. Haynes ..... Carder  
John Hulig ..... 2nd Hand Carding  
R. L. Liniker ..... Spinner  
Eli Tucker ..... 2nd Hand Spinning  
C. B. Goodman ..... Outside Foreman  
C. B. Goodman ..... Master Mechanic

### Eatonton Cotton Mills.

#### Eatonton, Ga.

R. B. Hunt ..... Superintendent  
J. W. Fernander ..... Carder and Spinner  
J. W. Feanander ..... Spinner  
C. M. Floyd ..... M. M.

### Greenville Cotton Mill, Inc.

#### Greenville, N. C.

J. H. Wilson ..... Superintendent  
W. M. Hammon ..... Carder  
John Howell ..... 2nd Hand Carding  
Jas. A. Griffin ..... 2nd Hand Spinning  
G. T. Holloman ..... Master Mechanic

### G. H. Tilton & Son.

#### Savannah, Ga.

J. H. Yearly ..... Superintendent  
J. E. Hand ..... Carder  
Billie Metcalfe ..... Mule Spinner  
Dave Carpenter ..... Master Mechanic

### Rainbow Manufacturing Co.

#### Ozark, Ala.

L. C. Langston ..... Superintendent  
I. A. Sprayberry ..... Carder  
J. T. Taylor ..... Spinner  
Alvin Siegler ..... 2nd Hand Spinning  
M. P. Holman ..... Shipping Clerk  
Lewis Summers ..... Master Mechanic

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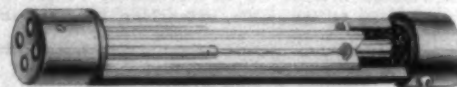
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Florence, Mass.

**CHARLES M. SETZER**

SOUTHERN REPRESENTATIVE

CHARLOTTE, N. C.

# SOUTHERN TEXTILE BULLETIN

Published Every Thursday by  
**CLARK PUBLISHING COMPANY**  
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DAVID CLARK.....	Managing Editor
B. ARP LOWRANCE.....	Associate Editor
J. M. WOOLLEY.....	Business Manager
C. E. HOBBS.....	Advertising Manager

## SUBSCRIPTION

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**THURSDAY, OCTOBER 7, 1920**

### The Cotton Market.

On last Monday the Government reported that 2,200,000 bales of cotton had been ginned to Sept. 25th as compared with 1,800,000 last year. It is surprising that with the crop thirty days later than usual, 400,000 more bales had been ginned and the only explanation is that the farmers anticipating a decline in price have rushed their cotton to the gins.

Following the ginning reports the Government reported that the condition of the crop on Sept. 25th was 59.1 per cent as compared with a ten year average of 63.2 per cent and stated that the indicated crop was 12,123,000.

The condition of the crop or the amount ginned have nothing to do with the present course of prices. The speculators recognize the fact that cotton is coming on the market at an increasing rate and that there is very little buying power due to the fact that the cotton mills are getting no orders.

In New York they are freely predicting 15 cents for cotton futures and as cotton has no friends today they may put the market down to that point but as it is generally recognized that cotton is now very near if not below the cost of pro-

duction there is sure to be an increasing amount of investment buying and it is also a positive fact that the farmers are going to hold a large amount of cotton off the market.

Hanging over the market is the possibility of an early frost and the strong possibility of easier money either of which will cause a weakening of bear pressure. They may push cotton down to 15 cents now but about the first of next March with a heavy reduction in acreage assured, the usual crop scares will be launched and unless the usual fails to happen there will be a bull campaign launched that will rival the present bear campaign.

The speculator is reaping a harvest on the bear side today but at some point the bottom will be reached and the speculator will drive just as hard in the other direction.

### Retailer Must Come Through.

Practically every branch of business has accepted a shrinkage of values except the retailers, and according to the best authorities, the refusal of the retailers to meet the new conditions is causing the present stagnation in business.

During the advance the retailers

made unusual profits due to the fact that the prices advanced before the goods arrived and as a rule they sold goods upon the basis of replacement costs.

If the average retailer sells the goods on his shelves today at their replacement cost he will have to take a loss and rather than do so he is holding his prices to their former high basis and the public, knowing that goods should be cheaper, are refusing to buy anything but absolute necessities.

The retailer will not order additional supplies from the jobber until he sells the goods he has on hand and the public is refusing to buy at the prices asked by the retailer.

Until the jobbers get orders from the retailers they can not place orders with the converters or mills and therefore the entire buying chain reverts to the stubborn retailer who is trying to unload high price goods upon the public and is losing a volume of business that he could obtain if he would take his loss, as have the manufacturers, and open his store for business upon the basis of replacement values.

In some sections the retailers are advertising that they have reduced prices from 20 to 25 per cent but as a rule such reductions were made after the goods had been abnormally marked up and it is evident to the well informed that many of such sales are efforts to deceive the public into buying high priced goods.

The manufacturer of yarns and the manufacturer of cloth has had to make reductions of fully 50 per cent in their prices and yet an examination into retail prices show very little reductions in cotton fabrics.

The retailer must come through and take the same medicine that has been taken in other lines of business. Business can not yet back to normal as long as the retailer blocks trade in an effort to unload goods at high prices.

Public sentiment must be developed to such an extent that it will force the retailer to come through.

### Plan Corporation to Export Cotton.

Columbia, S. C.—Announcement has been made here of details of a proposal to organize a corporation under the laws of this State to be known as the American Products Export & Import Corporation, with a capital stock of \$10,000,000, divided into 1,000,000 shares at \$10 a share. The aim of the corporation will be to engage in the business of exporting and importing cotton and other products and to conduct a general trade in these lines. It is planned to devote spe-

cial attention at the outset to the exportation of cotton to Europe, especially Central Europe.

The committee having charge of the organization and promotion of the corporation is constituted as follows: Richard I. Manning, chairman; J. S. Wannamaker, R. C. Hammer, J. R. Hanahan, Alan Johnstone, B. F. McLeod, J. R. Fahey, L. I. Guion, J. W. Gaston, R. M. Cooper, Jr., A. M. Gibbs, F. L. Willcox, B. H. Moss, J. A. Law, F. W. Duvall, Paul Sanders, William Coleman, R. G. Rhett, D. R. Coker, Bright Williamson, Victor Montgomery and G. B. Cromer.

Mr. Manning in a statement just issued declares that it is hoped that the stock will yield a prompt return, but that if this should not be realized "a tremendous advantage and benefit will be gained for the entire cotton growing industry if trade relations direct with Central Europe could be established by the cotton producers of the South." He says further that propositions have already been received from European manufacturers and bankers, having the approval of the Government, which may result in the prompt sale of cotton and its shipment abroad if the company can promptly meet the situation and be in a position to make the contracts and perfect the details necessary for the shipments.

The statement cites the following telegram as received from Governor W. P. G. Harding of the Federal Reserve Bank, under date of August 25.

"Central Europe has the spinning and weaving capacity, the mills and the labor, but lacks raw material. The South has the raw cotton. If a corporation could be formed under the Edge Act taking cotton in payment for stock, there would be opportunity for direct dealings between Southern producers and European mills. A movement of this kind would put new life in the market, for it would stimulate buying by domestic and British mills. The degree of risk appears to depend upon the stability of governments in Central Europe, and if capital, which is not interested in cotton growing, does not care to assume this risk, it must be borne by producers themselves. If anything is to be done, do not think the cotton situation can be improved by calamity talk, which can only lead to further depression, but believe it can be saved if there is injected a get-together spirit of courage, self reliance and determination, followed by prompt action along practical and constructive lines. People who can help themselves are assured of the most dependable and effective help. Courage breeds confidence and nothing succeeds like success."

### Textile Banking Company Declares Dividend.

At the regular meeting of the board of directors held last week (September 28th), Textile Banking Company, Inc., declared a third quarterly dividend of 2 per cent for quarter ending September 30th, payable October 1st, to stockholders of record September 28th.



## Personal News

T. L. Darby is now fixing looms at the Eureka Mills, Chester, S. C.

M. C. Dawkins has resigned as superintendent of Calhoun Yarn Mills, Calhoun, Ga.

A. S. Dalton, from Lindale, Ga., is now night overseer of weaving at Echota Cotton Mills, Calhoun, Ga.

Floyd Weldon, bookkeeper at the Cowikee Mill, Eufaula, Ala., has accepted a position at the Eva Jane Mills, Sylacauga, Ala. H. C. Glenn succeeds him.

H. E. Hargen, formerly overseer of spinning for Natchez Manufacturing Company, Natchez, Miss., is now holding a similar position at Santee Mills, Bamberg, S. C.

J. Ross Cannon, of the Cannon Manufacturing Company, York, S. C., who, with his family, has been spending the summer at Green Park, N. C., has returned home.

William J. McDonald has finished overhauling at Long Island, N. C., Cotton Mills and is now overhauling at Hartsville, S. C., Cotton Mill.

W. V. Jones, formerly overseer of carding and spinning for Fidelity Manufacturing Company, Charlotte, N. C., took charge of the carding department of Borden Manufacturing Company, Goldsboro, N. C., on October 1.

Robert Dillard has resigned as second hand in cloth room at Whitney Manufacturing Company, Spartanburg, S. C.

D. J. Gardner has resigned as superintendent of Adrian Manufacturing Company to accept a similar position with Myers Mills, Gastonia, N. C.

J. O. Blackmon, superintendent of Hillside Cotton Mills, LaGrange, Ga., recently paid a visit to Greenville, S. C., to make arrangements for the entertainment of the delegation which will go from these mills to the Fourth Textile Exposition.

P. A. Smith has just finished overhauling weaving machinery at Rhodhiss Mills, No. 2, Rhodhiss, N. C.

Victor Humphreys, son of W. C. Humphreys, master mechanic at Wilson Cotton Mills, Wilson, N. C., has changed from tying-in machine man at Rushton Cotton Mills, Griffin, Ga., to a position with Harper & Company's Foundry and Machine Shop at Wilson.

J. Frank Broom, assistant superintendent of the Riverside and Dan River Cotton Mills, Danville, Va., recently patented one of the most important attachments for a spinning frame, known as a hanker. He has installed the attachment to the machines in several mills in the south, and is now preparing to enter it for patent in foreign countries.

R. E. Ferguson, who recently resigned as assistant superintendent of Ware Shoals Manufacturing Company, Ware Shoals, S. C., has become superintendent of the Lydia Cotton Mills, at Clinton, S. C.

### McAden Mill Employee Killed in Accident.

An accident occurred in the dye house of the McAden Mills at McAdenville, N. C., last week which resulted in the death of Mr. John Hope, aged 30, one of the employees in that department. While details of the accident were not obtainable, it was learned that a piece of metal from the broken machine penetrated the intestines of the victim, causing injuries from which he died in a short time. Mr. Hope is survived by his wife and two small children.

### Bearskin Cotton Mill.

#### Monroe, N. C.

L. A. Funderburk...Superintendent  
T. E. Stevens...Spinner and Carder  
J. R. Riley...2nd Hand Carding  
Boyce Mullis...2nd Hand Spinning  
S. F. Starnes...Night Carder  
E. W. Carter...Night Spinner  
S. H. Howard...Master Mechanic

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Has no irritating effect on the workman—

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Benzopurpurine 4 B Conc.	Zeta Black
Direct Brilliant Blue 3 B	Alpha Black
anakra Chrome Fast	Gallocyanine
Kanawha Chrome Fast	Sneeze Blue
Brown R	Alizarine Yellow R
Kanawha Chrome Fast	Weyl Indigo
Black D	Sulphur Olive
Croceine Orange	

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NEW YORK CITY

Quotations on application

# MILL NEWS ITEMS OF INTEREST

**Henry River, N. C.**—The Henry River Manufacturing Company is installing a new water wheel, putting new rings on spinning and twisting, reclothing cards, putting new girds in pickers and overhauling all machinery. A new machine shop is also being put in.

**Greensboro, N. C.**—Of the 1,000 additional looms which are being installed at White Oak Mills, operated by the Proximity Manufacturing Company, about 400 are already running and the remaining 600 will be in operation not later than January 1, 1921. These looms are of the 46-inch type, and denim is being woven on them. When installation of these new model looms is completed, the Proximity Manufacturing Company will have 4,600 looms in operation in Greensboro.

**Elberton, Ga.**—The Pitts Cotton Manufacturing Company, which recently purchased the old Beverley Mill, is taking out all the old machinery and installing 6,000 new spindles to make cotton yarn for the automobile tire trade, especially No. 23 and single combed yarn for cord tires, to be on tubes and section beams, and made from 1 1-4 peeler cotton. All the machinery will be new. The company is also installing a power station, and will employ the electric drive.

**Alabama City, Ala.**—The Dwight Mill Corporation, operating cotton mills here, is to install a system of dustless card stripping, the contract having been awarded to the William Firth Company of Boston. Work is to be started on December 1 and will be finished in six weeks. The mill has just completed the erection of 25 new stucco houses at a cost of \$40,000 and will rent them to its employees. The company has made possible the erecting of a \$39,000 postoffice and city hall building by donating the land, giving \$10,000 cash and loaning the balance at a low rate of interest. A free dental clinic has been established for the children of the mill workers.

## Madison Knitting Mills Shut Down.

The Madison Knitting Mills at Madison, N. C., shut down recently on account of the dull market. The mill will begin operation as soon as the stock of finished product now on hand has been disposed of.

**Government Forecasts 12,123,000 Bales.**

Washington, Oct. 4.—Government cotton production this year was forecast today at 12,123,000 bales by the department of agriculture, which based its estimate on the condition of the crop on September 25, which was announced as 59.1 per cent of a normal.

Production was forecast last month at 12,783,000 bales and the condition of the crop August 25 as

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Bond Department

CHARLOTTE, N. C.

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CONE DRIVES.

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Charlotte, N. C.

67.5 per cent, while the forecast made in August was 12,519,000 bales on a condition of 74.1 on July 25. Last year's production was 11,329,755 bales and the condition of the crop on September 25 a year ago was 54.4. The ten year average condition on September 25 is 63.0.

The condition of the crop this year on September 25 by states was:

Virginia, 72; North Carolina, 68; South Carolina, 62; Georgia, 51; Florida, 50; Alabama, 49; Mississippi, 50; Louisiana, 47; Texas, 64; Arkansas, 65; Tennessee, 66; Missouri, 75; Oklahoma, 70; California, 78; Arizona, 90; all other states, 90.

## Ridley, Watts & Company Succeeds Watts, Stebbins & Company.

The following announcement was sent out October 1st:

Watts, Stebbins & Company has been dissolved by mutual consent as of September 30, 1920.

This firm will be succeeded as of

October 1, 1920, by

Ridley Watts & Company,

composed of

Ridley Watts, Charles H. Murphy, Arthur R. Johnson, Benjamin S.

Dennis, C. Whitney Dall;

Donald B. Stewart.

Watts, Stebbins & Co.

44 Leonard Street, New York.

## Kaumagraph Company Opens New Office.

The Kaumagraph Company, of 209 West 38th Street, New York City, has recently opened the following offices: 136 Federal Street, Boston, Mass. Mr. F. X. Hess, for many years connected with the A. C. Lawrence Leather Company, has charge of New England.

The second office is at 209 South Dearborn Street, Chicago, Ill., in charge of Mr. Robert V. Taft.

The business of the Kaumagraph Company has increased so rapidly in recent years that it has been found necessary to open these branch offices to properly care for the local customers. It will be remembered that this company manufactures an extensive line of goods, known to the trade as "Kaumagraph Dry Transfers." They are used for the identification of hosiery, underwear, woollens, silks, cottons, leather, garments and many other articles.

## Report of Cotton Ginned Prior to September 25.

Washington, Oct. 4.—Cotton ginned prior to September 25 amounted to 2,243,030 running bales, including 73,665 round bales, 3,365 bales of American Egyptian, and 43 bales of sea island, the census bureau announced today in its second ginning report of the season.

Ginning last year to September 25 amounted to 1,835,214 running bales, including 19,561 round bales, 2,166 bales of American Egyptian and 698 bales of sea island.



Ginning by states to September 25 this year were:

Alabama, 84,033; Arizona, 5,662; Arkansas, 56,558; California, 6,808; Florida, 3,124; Georgia, 275,011; Louisiana, 86,612; Mississippi, 93,997; Missouri, 239; North Carolina, 31,701; Oklahoma, 65,372; South Carolina, 171,112; Tennessee, 820; Texas, 1,362,021. Virginia and all other states were not given in the statement.

#### Prominent Men to Visit the South.

The following men compose a noted and interested part that make a tour of the cotton manufacturing districts of the cotton manufacturing districts of the South, beginning at Charlotte on Oct 18th.

F. L. Higginson, Jr., one of senior partners, Lee, Higgins & Co.

F. J. Hale, Saco-Lowell Shops, general agent, chief executor.

C. B. Seger, president, United States Rubber Co.

J. N. Gunn, president, United States Tire Co.

R. S. Willis, purchasing agent, United States Rubber Co.

F. Vernon Willey, Francis Willey & Co., London, and member of Parliament, wool administrator for Great Britain during war, fought at Dardanelles, large wool merchant and woolen manufacturer. A very important man.

Harold Edwards, Francis Willey & Co., Boston, associate in this country of Vernon Willey.

John E. Rousmaniers, president, J. Spencer Turner Company.

N. F. Ayer, treasurer several large New England mills, president Arkwright Club, treasurer of Nyanza Mills, Cabot Mfg. Co., Farnwell Bleachery.

Edwin Farnham Greene, president, Lockwood, Greene & Co., Engineers.

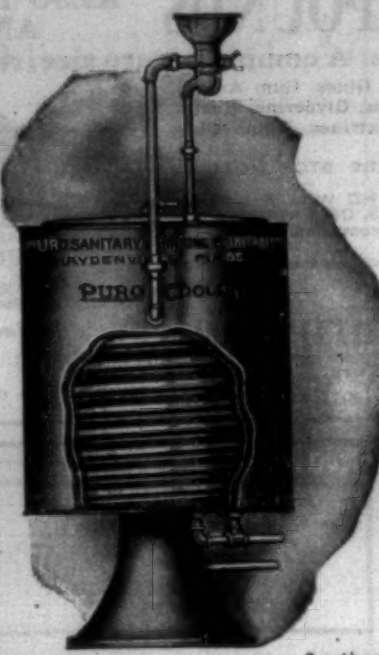
Henry C. Everett, Jr., treasurer Winnsboro Mills.

S. Harold Greene, president, Winnsboro Mills, president, International Cotton Mills.

The party will reach Charlotte early Monday morning, Oct. 18th, and be entertained at breakfast by J. Norman Pease, manager of the Charlotte office of Lockwood, Greene & Co., and at lunch by Arthur J. Draper. After visiting the textile plants of Charlotte they will leave Monday night for Greenville, S. C., and other points.

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NOW  
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40 Feet Coil Pipe—  
Cover with locking device  
and rubber washer, making  
an air tight Tank—equipped  
with PURO Sanitary Drink-  
ing Fountain.  
**Puro Sanitary Drinking  
Fountain Co.**  
Haydenville, Mass.  
Southern Agent  
**E. S. PLAYER, Greenville, S. C.**

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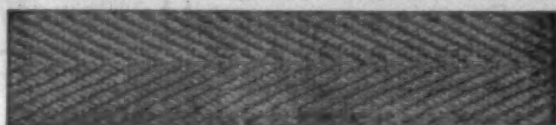
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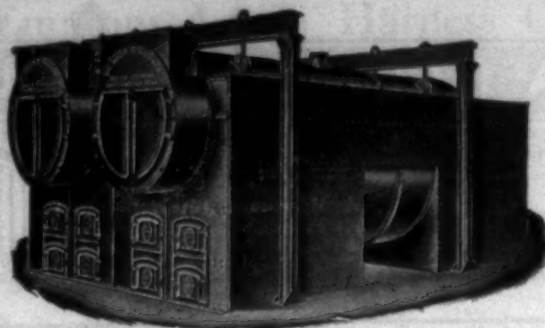
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A. C. Williamson.....Weaver No. 1	W. C. Grier.....Shipping Clerk
L. A. Peninger.....2d Hand Weav. No. 1	A. B. McNeil.....Outside Foreman
Coy Miller.....Loom Fixer No. 1	W. C. Craven.....Master Mechanic
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Want good experienced dyer for new mill making blue chambray. Give experience and particulars in first letter. Address New Mill, care Southern Textile Bulletin.

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Want Master Mechanic to take charge of work in new mill to be operated by electricity. State experience. Address New Mill, care Southern Textile Bulletin.

## The Automatic Blower and Sweeper For Textile Mills

Manufactured  
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High Grade Castings a Specialty



for the Sweeping of the alleys and under the frames in the Spinning, Spool and Twister Rooms. It soon pays for itself in the saving of labor and brooms.

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It Saves Money  
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80-2 TO 80-2 PLY CONE TUBES, SKIRTS & WARPS

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OFFICE: LOWELL, MASS.

CHARLOTTE, N. C. Aug. 10, 1920.

Simplex Roll Calendering Machine Co.,  
Anniston, Ala.

Gentlemen:

Back in April we noticed a cut of your Calendering Roll Machine in the Southern Textile Bulletin; this cut appealed to us and we immediately installed one of these machines. We have watched this machine up carefully and are glad to advise that we are highly pleased with the results that we are having from it. We have reduced our roller covering expense at least 33 1/3% - we use this machine on all of our new rollers, as well as re-working our old ones.

Yours truly,

THE ATHERTON MILLS,

By *J. B. Meacham*  
SUPT. & MGR.

QUOTATIONS SUBJECT TO CHANGE WITHOUT NOTICE. ALL AGREEMENTS CONTINGENT UPON STRIKES, ACCIDENTS AND DELAYS BEYOND OUR CONTROL.

MAY WE SEND YOU PARTICULARS?

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SEE OUR EXHIBIT Fourth Textile Exposition

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Textile and Electrical Distributors  
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**Standardize—Economize**

A Powers Automatic Heat Regulator saves labor, by mechanically controlling temperatures as required, thus relieving operatives for work which machines can't do.

It also positively prevents the ruin of material through overheating or underheating.

The Powers Regulator never forgets—never procrastinates—never shirks. It controls the heat—keeps it where you want it—all the time.

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The Largest Manufacturers of Loom Harness and Reeds in America  
Loom Harness and Reeds  
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OUR TAPES ARE ENDORSED BY MACHIN-  
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which appeals to the experienced eye of the buyer of white goods is produced by using Marston's Bleachers Blue. Costs no more than the "just as good" and will give the results desired

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For Sizing, Finishing and Dyeing

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Guaranteed Quality—Demonstrations Made

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These thread guides prevent excessive ballooning and decrease  
breakage of ends on spinning frame. They decrease the work of spin-  
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#### Commission Merchants

Cotton Piece Goods and Cotton Yarns

SOUTHERN OFFICE

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### MONTGOMERY & CRAWFORD

SPARTANBURG, S. C.

Textile SUPPLIES Electrical

HARDWARE

MACHINERY

## The Yarn Market

Philadelphia — Twenties two-ply carded warps were reported as being offered here in some quantity at 45 cents a pound. The first actual business reported here in 20s single carded skeins at less than 50 cents a pound occurred this week, when a 5,000-pound lot was purchased at 49 cents, two cents under the last reported sale price. At the same time, a sale of 20s-2 warps was reported at 50 cents a pound, also two cents off from the last previous price. There was also weakness in 30s single carded skeins and warps. It is said to be possible to get anything up to, and including, 14s in skeins and warps, either single or ply, at between 45 and 48 cents a pound.

In carpet and upholstery yarns, it is reported that certain of the local representatives of spinners are trying to induce their mills to put tinged yarns, such as 8s three and four-ply tubes, to 30 cents, believing that 40 cents would be attractive to local buyers and still leave the spinners a small margin of profit, provided the poundage booked was large enough and the deliveries could be carried far enough ahead.

In carded knitting cones, 48 cents is heard for 16s, 50 cents for 20s and 52 cents for 22s, but there has been very little action in these yarns. Northern cones have weakened lately to the extent of from two to five cents a pound, having been reported as selling on the basis of 50 cents for 10s, 57 cents for 20s, and 70 cents for 30s. Knitters are said to insist that these yarns are still considerably beyond their reach.

Yarn merchants and their customers, according to opinions freely expressed in this market, have little reason to feel surprise at what has long appeared to be a concerted effort by retail dealers to withhold from the public any real participation in the benefits which should accrue to consumers from the substantial price reductions already made by wholesale dealers.

A local yarn market factor with unusual facilities for getting at the facts, stated that he became convinced as early as the first of August that the retail dealers were prepared to take this stand. This conviction was founded on the following facts: First, a wave of "school buying" was counted on to begin during the latter half of August and extend well into September, based on the theory, said to be substantiated by many years of experience, that a certain amount of purchasing of articles of apparel, etc., needed by school children can always be depended on, except in periods of very acute depression. This buying materialized, as indicated by local financial clearing house weekly reports.

Second, the average retail dealer expects another wave of buying to come with a turn in the weather, this business consisting of the fill-

ing of seasonable requirements which are now being neglected because the weather has been warm. The expectation attributed to the retailer is that such buying may not approach normal in volume, but will be sufficient to keep retail organizations fairly well occupied.

Third, the final retail buying wave of the year, according to this theory, will consist of the Christmas buying. It is said that the general expectation is that this buying will be large, but this is merely a guess, it is admitted, in view of the possible rapid spread of unemployment immediately following the Presidential election.

**Southern 2-Ply Chain Warps, Etc.**

6s to 10s	45 a	2-ply 26s	55 a
12s to 14s	46 a	2-ply 30s	58 a
14s	48 a	2-ply 40s	80 a
2-ply 16s	48 a	2-ply 50s	120 a

**Southern Two-Ply Skeins.**

6s to 10s	46 a	30s	58 a
10s to 12s	47 a	40s	80 a
14s	48 a	50s	110 a
16s	48 a	60s	140 a

**Upholstery Yarns—**

8s 3 & 4-ply	40 a
--------------	------

**Duck Yarn.**

3, 4 & 5-ply skeins—	3, 4 & 5-ply skeins—
8s	46 a
10s	47 a
12s	47 a

**Southern Single Chain Warps.**

6s to 12s	46 a	24s	54 a
14s	48 a	26s	56 a
16s	48 a	30s	58 a
20s	50 a	40s	85 a
22s	51 a		

**Southern Single Skeins.**

6s to 8s	46 a	20s	50 a
10s	47 a	22s	51 a
12s	48 a	24s	52 a
14s	49 a	26s	54 a
16s	49 a	30s	58 a

**Southern Frame Cones.**

8s	42 a	44	20s	51 a
10s	42 a	45	22s	52 a
12s	42 a	46	24s	55 a
14s	44 a	46	26s	56 a
16s	48 a	46	30s	58 a
18s	50 a	46	30s extra	70 a

**Combed Peeler Cones.**

10s	85 a	28s	1 04a
12s	87 a	30s	1 08a
14s	89 a	32s	1 10a
16s	91 a	34s	1 22a
18s	93 a	36s	1 25a
20s	95 a	40s	1 32a

The world-famed tenor, Enrico Caruso, was touring in the rural districts of New York when his car broke down. He stopped in a nearby farmhouse to get a drink of water. The farmer became chatty and finally asked his name. When he told the old man that it was Caruso he leaped to his feet.

"Little did I think that I'd ever see a man like you in this here humble kitchen, sir," he exclaimed! "Caruso, the great traveler! Robinson Caruso!"

The prize for optimism must be awarded to a resident of one of the recently flooded suburbs of Erie. An old man was sitting on the roof of his house during the flood, watching the waters rise, when a neighbor, who possessed a boat, rowed across to him.

"Hallo, John," he said, "have all your folks been washed away this morning?"

"Yes, but the ducks can swim."  
"Is your corn under the water?"  
"Well, they said the crop would be a failure anyhow."

"I see the flood has reached above your windows."

"That's all right. Them winders needed washin'."



## Cotton Goods

New York—Unsettled conditions in raw cotton markets, coupled with the light demand from the converting and jobbing trades, have brought about a renewal of liquidation in cotton goods and cotton yarn prices. Curtailment of production in manufacturing centres has been increasing and in most cases it has been brought about the expiration of contracts and inability to secure additional business. The period of protection given on prints and percales has expired, but printers have not yet made new prices for future deliveries.

There is a growing feeling in many parts of the cloth markets that prices have been revised very thoroughly on some goods, such as print cloths, sheetings and some of the convertibles largely used for many miscellaneous purposes. They may or may not go lower later on, but unless producing costs make a great dip before the end of the year mills will not enter any very large contracts until there is a possibility of profit on production that does not obtain today on some fabrics. Curtailment is greater now than merchants would like to see it, and the yarn markets have become so demoralized that this idleness will be increased quickly unless improvement sets in soon.

Until more pressure is exerted from consumers and traders to force retail prices down some primary and jobbing merchants say it is useless to talk about business getting any better while high money rate prevail. This is a more despondent outlook than many others are visualizing, and they are confident that retail prices will begin to rattle before another 30 days have gone by. The impression that election results will be discounted by the middle of this month and will be reflected in a more active buying movement is firmly fixed in several places.

It was pointed out that much of the talk now heard in the markets and emanating from buyers is a natural result of their own overdoing or a disobedience of instruc-

tions given by their superiors. Some buyers are begging for allowances, cancellations or low prices for other than mercantile reasons. They want allowances because they bought more than they were told to buy. They want cancellations for the same reason. Some of them approach sales managers with propositions that if very low prices are made to them on goods to be made, so that they will be able to show an average profit on goods in hand and to be sold, they "will not forget it." While this sort of experience is not general it has been more common in many large houses than at any previous time.

Quotations are: Print cloths, 28-inch, 64x64s, 10 cents; 64x60s, 9 cents; 38½-inch 64x64s, 14½ cents; brown sheeting, southern standard, 20 cents; denims 220s, southern indigo, 44 cents nominal; ticking, 8 ounces, 40 cents; staple gingham, 20 cents; standard prints, 23 cents nominal; dress gingham, 25 cents and 27½ cents.

Has the Requisite RESILIENCY  
for Street Work—

### AGASCO PAYING PITCH

Filler and Cushion for Granite  
Cube, Brick, or Wood-Block  
Pavements

Does Not Crack, Crumble,  
Or Shrink

#### AGASCO ROAD BINDER

for smooth, resilient, dustless  
roads—Two gallons per square  
yard does the work.

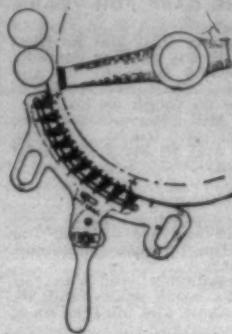
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for concrete roads—Prevents too  
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AGASCO Preservative Paints: Num-  
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bridges against the elements.

#### ATLANTA GAS LIGHT CO.

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## Less Waste — Cleaner Yarns

### Atherton Adjustable Pin Grids

most manufacturers are adopting, knowing that they will pay for themselves in a short time in the saving of good stock, at high price of COTTON today.

### Atherton Pin Grid Bar Company

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### SUCCESSORS TO

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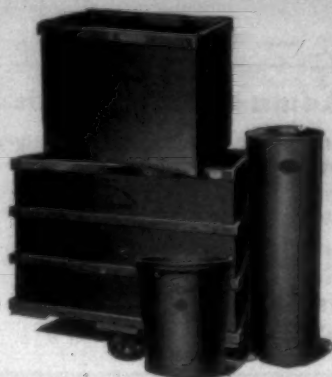
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Finishol is a scientifically prepared detergent; soluble finishing and softening oil. It is used where any softener is required, in either a rinsing or color bath and is also for boiling out raw stock. It is extensively used with excellent results upon colored stock in the Fries Dyeing Machines.

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OF BALTIMORE  
Since 1832

CHARLOTTE  
ATLANTA  
GREENVILLE, S. C.



**LAMINAR**  
MILL RECEPTACLES

**THEY STAND THE GAFF FOR YEARS.**  
Laminar Mill Receptacles are as smooth as paper, as strong as iron and as light as wood. They will not rust or corrode. In fact, there doesn't seem to be any wear-out to them. They are made of Vul-Cot Fibre—it's as tough as horn. These Laminar Mill Receptacles are made in the form of trucks, doffing boxes, roving cans and all sorts of special boxes, cans and trays.

**REMEMBER THAT**

Laminar Mill Receptacles that were turned out 25 years ago are still on the job in some of the largest industrial plants in the country. These are the receptacles you want in your place. Let us send prices and illustrations. Your name and address on a post card will do.

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Stocking Welting  
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Mock Seaming

Maximum Production  
Minimum Cost of Upkeep  
Unexcelled Quality of Work

**THE MERROW MACHINE COMPANY**

20 Laurel Street, Hartford, Conn.

**We Make a Brush for Every Use in  
The Mill**



We refill Spiral top flat cylinder brushes and can give prompt service



**ATLANTA BRUSH COMPANY**

ATLANTA, GA.

QUALITY PLUMBING IN ALL LINES

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"The Service Shop"

Plumbing and Heating Contractors

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**Special Sizing and Finishing Products  
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**HYDROSULPHITES**

(For all Purposes)

**Jacques Wolf & Company**

MANUFACTURING CHEMISTS AND IMPORTERS

PASSAIC, N. J.

## Knit Goods

Philadelphia—A quick, sharp turn in the hosiery market, which took many jobbers by surprise, will have the effect of diverting to mills a considerable volume of business in which distributors caught long of merchandise had become a seriously disturbing factor. Resales were being made in large numbers at so much less than bare cost of production that manufacturers for the time felt they no longer could compete with the jobbers in distress. Speculators in knit goods who were picking up distress lots and were reaping a harvest while manufacturers were trying to get a new dollar for an old one also will be less a factor in demoralization, for prices at mills are down to or are approaching the lowest figures. Overloaded jobbers and second hands generally were quoting.

While prices have been receding gradually for some weeks, the break came soon after the American Woolen Company and the Pacific Mills opened their lines, followed a few days later by the Amoskeag prices on piece goods. Some business was being booked by the two concerns first mentioned, but a day after the Amoskeag got into the market both were kept busier, it is related, in resisting cancellations and revising price lists than they had been during the opening days in writing orders. The Amoskeag got well under their figures. Something of that kind was not unlooked for in the knit goods trades, and so soon as it became noised about that one of the very large mill organizations had sold heavily during the previous week and appeared to be still doing business on a scale indicating that buyers would take merchandise if prices were low enough there was a scramble to get some of the business that seemed to be available. Result, astonishingly low prices were named.

Sales of women's all mercerized hosiery at \$3.50, a drop from \$7—the price of February and March and thereabouts—and mercerized half hose at \$3.25, appear to have been a signal for a smashing of values all along the line, more particularly when it became known that manufacturers were liquidating silks on a basis crowded out memory of the department stores' 20 per cent-off sales.

The mill first to go out in a general way with radically lower prices is understood to have booked a greater volume of business than had been contemplated, and it is stated by some operators that prices at which jobbers bought were lower than the latter had been looking for. The rate at which distributors took the lines is accepted in some quarters as meaning that they had so reduced stocks that buying could not be much longer deferred, and there are mill heads who have been watching the current of events who feel that there will be business in good volume so soon as there

it confidence the bottom has been reached. It probably will be some little time before buyers will feel so assured. Recent breaks, they appear to believe, portend others.

The sentiment among manufacturers having stocks of finished goods or yarns at previously high prices is to empty the warehouses, and when it comes to manufacturing from yarns yet to be bought, to either do so at a profit or again resort to curtailment. In fact, many jobbers prefer that there be no further accumulation of stocks at least until readjustment has been made complete.

Cochran Cotton Mill Company.

Cochran, Ga.

C. H. Lockman.....Superintendent  
John Barnes.....Carder  
S. D. Green.....Spinner  
E. H. Brown.....Weaver  
G. H. McRae, J. A. Funderburk, J. H. Bagley, W. J. Eure.....Loom Fixers  
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### WE SPECIALIZE

In Rewinding A. C. and D. C. Apparatus  
**WINGFIELD & HUNDLEY**

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Richmond, Va.

### Textile Mill Floors Scrubbing Powder



We are pleased to advise that our business so far this year has **DOUBLED** and Then Some over 19. WHY?

**THERE'S A REASON  
MI CLEANSER**

**IS PERFECTED NOW**

Your mill supply house will furnish you **MI CLEANSER**, or order direct from the factory

**Champion Chemical Co.**

Charlie Nichols, General Manager

Asheville, N. C.



## Want Department

If you are needing men for any position or have second hand machinery, etc., to sell the want columns of the **Southern Textile Bulletin** affords the best medium for advertising the fact.

### For Sale.

One cylinder slasher complete for sale at most reasonable price. Can be seen running now. Come to or write Blair Mills, Belton, S. C.

### For Sale.

Scott Yarn Breaking Strength Tester Hand Machine in excellent condition. Address Box No. 987, Charlotte, N. C.

## Machinery For SALE

For Sale 6 Fales & Jencks Twisters, 2-inch ring. 4 Universal Winders, tube, cone and paralleling attachments. 1 17-K. W. Generator, 1 19-K. W. Generator and 1 7½-K. W. Generator, all prices low.

Hunter Machinery Co.,  
Marion, N. C.

### Yarn Mill For Sale.

For sale all or any part of the capital stock of a small yarn mill now running and making money. Buyer must be a practical mill superintendent and manager, qualified to run this mill. Address H. F. Jones, Calhoun, Ga.

### Wanted.

1 Steel Water Tank with tower about 2,500 gallon capacity. Quote prices and full particulars. Box 204, Spartanburg, S. C.

### Winders For Sale.

For sale a few No. 50 Universal winders. Can be seen in successful operation. Address Box No. 459, Gastonia, N. C.

### Improved Rice Dobby Chain



reduces broken bars to a minimum because the wire eyes do not break into the side walls of the peg holes. The eyelets are fastened so securely that they cannot work loose.

Rice Dobby Chain Co.

Millbury, Mass.

Send Us Your Order To-day

### Card Room Overseer Wanted.

Man with clean, successful record behind him, who is well educated, good disciplinarian, a hustler for production—has an opportunity to connect with a modern, up-to-date mill run by a bunch of live wires. Booze fighters and loafers save time and postage. Address B, care Southern Textile Bulletin.

## All Wool Roller, Slasher and Clearer Cloth

F. C. HITCHCOCK CO.

48 & 50 Pearl St.

BOSTON, MASS.

### MACHINERY FOR SALE

- 1—80 spindle 11x5½ slubber
- 6—10x5 intermediates
- 3—152 spindle 7x3½ roving frames
- 10—208 Saco-Lowell spinning 2 inch ring, 3 inch gauge
- 10—192 Lowell spinning 2 inch ring, 3 inch gauge
- 12—192 Whitin spinning 1½ inch ring, 2½ inch gauge
- 12—204 Fales & Jencks spinning 1½ inch ring, 2½ inch gauge
- 7—254 spindle Hopedale twisters, tape driven, 1½ inch ring, 3 inch gauge
- 12—248 spindle Hopedale twisters, tape driven, 1½ inch ring, 2½ inch ring
- 2—256 Whitin twisters both wet and dry rings and rails
- 16—192 spindle Fales & Jencks twisters 1½ inch ring 2½ inch space wet
- 6—144 spindle Collins twisters 2½ inch ring, 3½ inch space.

**TEXTILE MACHINERY COMPANY**  
CHARLOTTE, N. C.

## Free Service Department

Any mill in need of superintendent, overseer, second hand, loom fixer, card grinder or any class of men other than operatives may insert a notice in this column for two weeks, free of charge. If the name of the mill is not given and the answers come care Southern Textile Bulletin, the cost of stamps used in forwarding replies must be paid by the advertiser.

### Male Stenographer.

Man about 30 years old. Married preferred, to do stenographic and general office work. Position is in large Georgia cotton mill. Address "Stenographer," care of Textile Bulletin.

### Wanted:

A strictly first-class cloth and finishing room overseer, who has had experience handling colored goods. State full particulars in first letter, giving age, experience, whether married or single and references. Address "S. C. M.," care Southern Textile Bulletin.

### Section Man.

Want section man for small card room. Good position to right man. Must be able to change and grind cards. Give age, experience and reference in reference. Address S. M. C., care Southern Textile Bulletin.

### Spinning Section Men.

Want two good section men for spinning room. None but first class need apply. Address C. G. R., care Southern Textile Bulletin.

### Band Instructor

Wanted by small yarn mill, instructor for band of 15 instruments to instruct band and also work in the mill. Address Tifton Cotton Mills, Tifton, Ga.

## For SALE

"On account of change in construction we offer for immediate delivery the following machinery:

- 12 F. & J. twisters, 240 spindles, 1¼ inch rings, 2¾ inch space
- 1 F. & J. twister, 240 spindles, 1½ inch rings, 2¾ inch space
- 2 F. & J. twisters, 176 spindles, 2½ inch rings, 3½ inch space
- 8 Universal winders, 6x6 tubes
- 2 Eccles screw presses
- 7 Short chain beaming frames
- 40 Fancies for 40 inch Saco-Petee cards
- 4 4x5 Easton & Burnham spoolers
- 2 80 spindle Foster winders for 6 inch tubes

All of this machinery is in first class condition and most of it can be inspected running.

Bargain prices for quick delivery.

## Blue Buckle Cotton Mills

ROCK HILL

South Carolina

## E C O Watchmans' CLOCKS

WRITE FOR CATALOGUE  
ECO CLOCK CO. Sou. Dept., 403 Walton Bldg. Atlanta, Ga.



## EMPLOYMENT BUREAU

The fee for joining our employment bureau for three months is \$2.00 which will also cover the cost of carrying a small advertisement for one month.

If the applicant is a subscriber to the Southern Textile Bulletin and his subscription is paid up to the date of his joining the employment bureau the above fee is only \$1.00.

During the three months' membership we send the applicant notices of all vacancies in the position which he desires.

We do not guarantee to place every man who joins our employment bureau, but we do give them the best service of any employment bureau connected with the Southern Textile Industry.

WANT position as overseer of weaving. Now employed and getting over 100% production with less than 1% seconds. Want larger job and can furnish best of reference. Address No. 2760.

WANT position as assistant superintendent or assistant manager of cotton mill. Have high technical education in textile manufacture and valuable experience in a managerial capacity. Address No. 2749.

WANT position as overseer of weaving or superintendent. Reference as to character and ability. Address No. 2750.

WANT position as superintendent of good mill by man now employed and giving satisfaction but for good reasons wish to make change. Address No. 2751.

WANT position as superintendent or overseer of spinning in good mill in Carolinas or Virginia. Now employed as superintendent in far Southern mill and want to get back near home on account of health. Good reference. Address No. 2752.

WANT position as superintendent of medium size mill. Now employed but wish to change for good reasons. Can furnish reference if wanted. Address No. 2753.

WANT position as assistant superintendent of large mill or manager or superintendent of small mill. Long practical experience and graduate of Ga. Tech of 1911. References from past employers. Address No. 2754.

WANT position of superintendent of either yarn or weaving mill. 39 years of age. Experienced on 8s to 80s. Combed and carded yarns. Can furnish best reference. Now employed would like to correspond with parties needing a good man. Address No. 2756.

WANT position as pay-roll clerk in large textile mill by a young man. Married. With five years practical experience. thoroughly conversant with production records of varied sizes of hank-roving and yarns, can operate a comptometer. Address No. 2757.

WANT position as superintendent of small or medium size yarn mill. I have sixteen years experience as overseer of carding and spinning, twisting, winding, ruling, etc., and have eight years experience as superintendent. I would consider an overseers position. Am experienced on coarse and fine numbers, on white and colored yarns. Can furnish best of reference as to character and ability. I am 46 years old and have a family. Address No. 2758.

WANT position as overseer of weaving in good mill. Now employed and giving satisfaction but want larger room. Address No. 2759.

WANT position as overseer of spinning room. Have had experience and can furnish reference as to character and ability. Address No. 2766.

WANT position as overseer of card room. Can furnish reference as to character and ability. Know how to get production and manage help. Address No. 2765.

WANT position as superintendent or overseer of large weave room. Now employed in small mill but would like to have larger job. Can get results. Address No. 2768.

WANT position as superintendent or overseer of carding and spinning in large mill making tire duck or yarn. Long experience and reliable in every way. Address No. 2769.

WANT position as assistant superintendent of large mill or superintendent of small mill. Had technical education in textile manufacturing at N. C. A. & E., and 12 years practical experience on colored work. Age 33. Reference from past employers. Address No. 2774.

WANT position as overseer of spinning. Have had 15 years experience on white and colored goods from 1s to 40s. Prefer Georgia or Alabama. 26 years of age and married. Address No. 2770.

WANT position as overseer of carding or spinning or both in small mill. Now employed in large mill and giving satisfaction. Can furnish reference as to character and ability. Address No. 2771.

WANT position as superintendent of yarn mill. Held present position as superintendent for 6 years, giving satisfaction. Wish to change to larger mill. Address No. 2772.

WANT position as superintendent of mill in Carolinas. Now employed but want larger place. Would like to take stock in mill. Can furnish reference. Address No. 2773.

WANT position as superintendent or assistant superintendent or overseer in large mill. Address No. 2775.

WANT position as overseer of spinning by a young married man in some small city. Don't care what size room may be. I am now general overseer of spinning in a 17,000 spindle mill in large city, but want to get in small city. Very best of references. Address No. 2777.

WANT position as overseer of weaving. Six years experience on plain and fancy work. Can furnish satisfactory references and handle any size job. Address No. 2776.

WANT position as overseer of large weave room in Carolinas. Have had 8 years experience. Now employed and giving perfect satisfaction, but would change for larger job. Address No. 2778.

WANT position as overseer of weaving in good mill. Now employed and giving satisfaction, but want larger room. Have had 26 years experience in weave room, four years as overseer. Can furnish best of references. Address No. 2779.

WANT position as superintendent of yarn mill or overseer of spinning in large mill. Several years experience and good references. Address No. 2780.

WANT position as overseer of carding or master mechanic. Have had experience in both lines and give satisfaction. Address No. 2781.

WANT position as superintendent of small yarn mill. Not over 15,000 spindles. Can furnish satisfactory references. Address No. 2782.

WANT position as superintendent or overseer of carding and spinning in large mill. Now employed and giving satisfaction, but want to change and get with modern, up-to-date mill. Address No. 2784.

WANT position as master mechanic or engineer. Experienced with steam and electric power. Married and have 7 years experience. Address No. 2785.

WANT position as overseer of carding. Long experience and can furnish reference. Address No. 2786.

WANT position as overseer of carding in large mill. Best of references. Have had several years experience. 38 years old. Address No. 2787.

WANT position as superintendent of small mill or overseer of carding in large mill in Carolinas. Have been overseer of carding for fifteen years and at present superintendent. Want to get back to Carolinas is reason for change. Address No. 2788.

WANT position as superintendent or overseer of carding in large mill. Can furnish reference as to ability and character. Address No. 2789.

WANT position as second hand in large spinning room. Eight years experience on white and colored, coarse and fine yarn. A good manager of help. Can furnish good reference as to character and ability. Address No. 2795.

WANT position in mill where twelve years experience in erecting and overhauling would be appreciated. Have had five years experience erecting spinning and card room machinery. Am seeking a position where I would have a chance to learn to operate a mill.

Can furnish best of reference as to character and ability. Will consider anything where my past experience would be of value. Am now employed. Address No. 2794.

WANT position as overseer of carding or spinning or master mechanic. Have had eight years experience as overseer and five years doing machine shop and electrical work. Would accept position as assistant superintendent in good mill. Address No. 2791.

WANT position as overseer of small card room or second hand or a speeder section. Now employed and giving satisfaction but looking for a bigger job. Not afraid of work. Address No. 2793.

WANT position as superintendent of medium size yarn or weaving mill. 33 years experience in mill; 18 as overseer of carding, spinning, spooling, twisting, warping, etc. 5 1/2 years on present job as overseer of carding. 45 years of age, have family, and can furnish good reference. Would consider job as assistant superintendent in good mill. Address No. 2796.

WANT position as superintendent of yarn mill or overseer of carding and spinning in large mill. Can furnish satisfactory reference. Address No. 2797.

WANT position as overseer of large card room or carding and spinning. Can furnish best of references and get results. Address No. 2790.

WANT position as superintendent of cotton mill. Have been with present company over eight years as superintendent. 41 years of age. Can give reference as to ability and character. Address No. 2798.

WANT position as superintendent of yarn mill weaving yarns as hosiery yarn. Experience on white and colored, solid colors and mixtures. Now employed as superintendent but would like to make a change. Address No. 2800.

WANT position as electrical engineer or master mechanic. Experienced on steam turbines. Best of reference and thoroughly capable. Want to change in order to get to good school. Have in family one master mechanic, one turbine operator, and weaver and draw-in hand. Would not consider place where there is no good school. Address No. 2799.

WANT position as superintendent of good mill on white or colored work, plain or fancy. Experienced on all kinds of work and have handled two or three good jobs with satisfaction. Address No. 2801.

WANT position as overseer of carding in large mill (over 50,000 spindles) or superintendent of yarn or weaving mill. Now employed as overseer in large mill on colored work but prefer white. Small family, good manager of help, best of reference. Address No. 2802.

WANT position overseer of weaving in large mill on colored or plain work, or time keeper for large mill corporation. I. C. S. graduate in weaving. 16 years experience in mill, 10 years in weave room. Address No. 2803.

WANT position as superintendent of mill from 10,000 to 50,000 spindles. Good reference. Address No. 2805.

WANT position as overseer of weaving in large mill. 18 years experience on colored and white work on Draper and Crompton looms. Can furnish reference. Address No. 2804.

WANT position as superintendent or assistant superintendent or overseer of weaving. Would not consider less than \$50.00 per week. References. Address No. 2806.

WANT position as roller coverer. 10 years experience, age 31, married, good reference. Address No. 2807.

WANT position as superintendent of mill in Carolinas. Good reference. Address No. 2808.

WANT position as superintendent or overseer of spinning in large mill. 35 years old, married, 12 years as overseer. Best of reference. Address No. 2810.

WANT position as superintendent or general manager of large mill, nothing less than 20,000 spindles. Now employed as superintendent of large mill and giving satisfaction but would like to change location. Address No. 2814.

WANT position as overseer of carding or spinning or both. Now employed and giving satisfaction but have good reason for changing. Address No. 2809.

WANT position as overseer of spinning, twisting, or winding. Thoroughly reliable and competent. Can furnish reference. Address No. 2813.

WANT position as overseer of weaving by man with several years experience. Now employed and giving satisfaction but would like larger job. Address No. 2763.

WANT position as superintendent of small yarn or weaving mill or overseer of large weave room. Can furnish reference as to character and ability. Address No. 2765.

WANT position as superintendent of weaving mill with from 12 to 20 thousand spindles. Thoroughly competent to handle any size job. Can furnish references. Address No. 2819.

WANT position as superintendent of yarn mill of 5,000 to 15,000 spindles. Now employed as superintendent but wish to change for good reason. Have had 11 years experience as superintendent. Age 43, married. Can furnish reference. Address No. 2817.

WANT position as overseer of weave room. Now employed but would like to change for larger job. Address No. 2815.

WANT position as superintendent of yarn mill or overseer of large card room; long experience on white and colored work; will have the help if anyone has them. Now employed and giving satisfaction; as good references as anyone; 39 years of age. Address No. 2825.

WANT position as overseer of carding. Now employed but would like change. Address No. 2824.

WANT position as overseer of carding. Eight years experience on carded and combed fine and coarse numbers. Can furnish best of reference as to ability to get results. 38 years of age. Address No. 2823.

WANT position as superintendent. Special experience in both combed carding and spinning of fine yarns. Good reference. Address No. 2822.

WANT position as overseer of carding or spinning or both. Now employed but for personal reasons would like to change. 32 years of age. Good references from all former employees. Address No. 2821.

WANT position as superintendent or overseer of large room. Can accept reasonable notice and furnish good reference. Address No. 2833.

WANT position as overseer of large cloth room. High class cloth room man. Can give good references. Or position as overseer of weaving in small print cloth mill. And am a good clean Christian. Address No. 2829.

WANT position as superintendent or manager of cotton mill. Am 31 years old, have been assistant superintendent of large and up-to-date plant for the past six years and have technical training in addition to ten years practical work in mill. Especial knowledge and experience in reorganization and mill building construction. Can give good references. Address No. 2829.

WANT position as overseer of spinning. Now employed as overseer and have been for 10 years. Age 35, married. Good reference. Address No. 2828.

WANT position as superintendent or overseer of weaving. Now employed and experienced on all kinds of work. Address No. 2826.

WANT position as superintendent or overseer of carding and spinning in large mill. Now superintendent and giving satisfaction. Good reference. 42 years old with family. Address No. 2836.

WANT position as superintendent or overseer of large weave room. Good reference. Address No. 2825.

WANT position as overseer of carding or spinning or both or night superintendent. Long experience and good recommendations. Address No. 2834.

WANT position as overseer of spinning in good Southern cotton mill by man 54 years of age with long experience on all colors and counts and an A-1 manager of help. Sure to get record results. Address No. 2833.

WANT position as overseer of card room by man with 14 years experience as overseer. Good manager of help. Must be large room or would take superintendent's job. Can make change quick. Present location is only reason for change. Address 2831.



## ALPHABETICAL LIST OF ADVERTISERS

- A-**  
Abell-Howe Co., Michigan Ave., Chicago, Ill.  
Aladdin Co., The, Bay City, Mich.  
Allen, Chas. R., Charleston, S. C.  
Allen Spindle Corporation, 80 Boylston St., Boston, Mass.  
American Audit Co., The, Atlanta, Ga.  
American Kron Scale Co., 430 E. 53rd St., New York.  
American Moistening Co., Boston, Mass.  
American Textile Banding Co., Philadelphia, Pa.  
American Trust Co., Bond Dept., Charlotte, N. C.  
American Vulcanized Fibre Co., Wilmington, Del.  
Annex Hotel, New York.  
Arbol Mfg. Co., New York.  
Ashworth Bros., Charlotte, N. C.  
Atherton Pin Grid Bar Co., Providence, R. I.  
Atlanta Brush Co., Atlanta, Ga.  
Atlanta Gas Light Co., Atlanta, Ga.  
Atlanta Paper Co., Atlanta, Ga.  
Atlantic Dyestuff Co., 83 Ames Bldg., Boston, Mass.  
Atlantic Textile Co., Salisbury, N. C.
- B-**  
Barber Colman Co., Rockford, Ill.  
Barber Mfg. Co., Lowell, Mass.  
Bosson & Lane, Atlantic, Mass.  
Brown Co., David, Lawrence, Mass.  
Butterworth & Sons Co., H. W., Philadelphia, Pa.
- C-**  
Campbell, John, & Co., New York.  
Carolina Size & Chemical Co., Charlotte, N. C.  
Carrier Engineering Corp., New York.  
Carter, A. B., Greenville, S. C.  
Cathin & Co., 345 Broadway, New York.  
Chaffee Co., Thos. K., Providence, R. I.  
Champion Chemical Co., Asheville, N. C.  
Charlotte Leather Belting Co., Charlotte, N. C.  
Chattanooga Sewer Pipe Works, Chattanooga, Tenn.  
Chicago Fuse Mfg. Co., Chicago, Ill.  
Clark Mfg. Co., H. E., Box 372, Atlanta, Ga.  
Cocker Machine & Foundry Co., Gastonia, N. C.  
Collins Bros. Machine Co., Pawtucket, R. I.  
Conner & Walters Co., Charlotte, N. C.  
Corn Products Refining Co., New York.  
Cotton States Belting & Supply Co., Atlanta, Ga.  
Courtney Co., Dana S., Chicopee, Mass.
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Dobbins Soap Mfg. Co., Philadelphia.  
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Dunn & Co., 15 W. Trade, Charlotte, N. C.
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East Jersey Pipe Co., Patterson, N. J.  
Eco Clock Co., Atlanta, Ga.  
Emmons Loom Harness Co., Lawrence, Mass.
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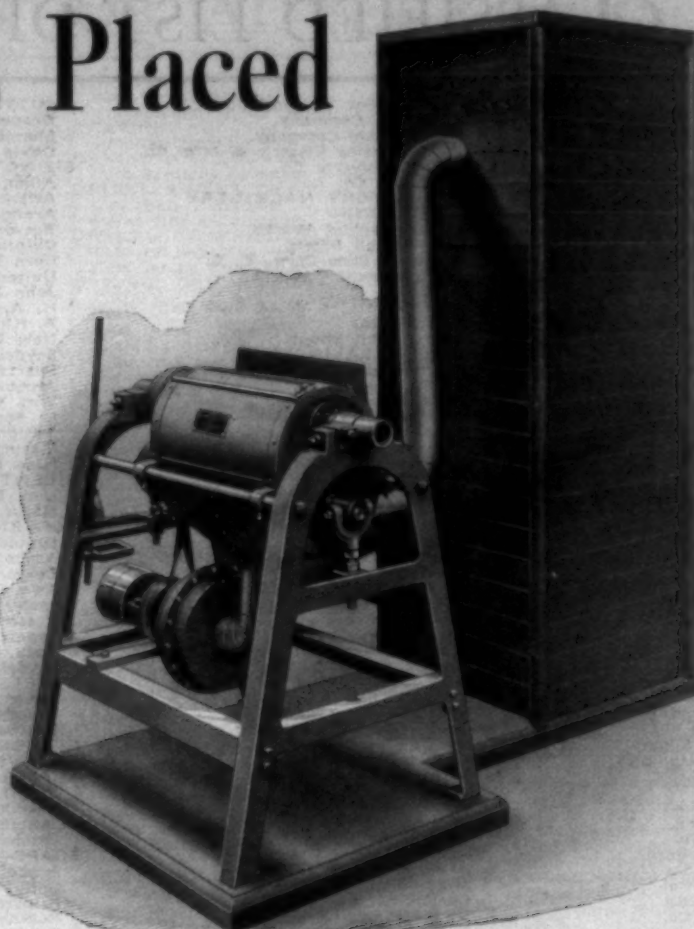
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Seydel Mfg. Co.  
Southern Cotton Oil Co.  
Swan & Finch Co.  
Texas Co.  
Wadsworth, Howland & Co.  
Wolf, Jacques & Co.  
OILING SYSTEMS—  
De Laval Steam Turbine Co.  
Lunkenheimer Co.  
Powell Co., Wm.  
Wayne Oil Tank & Pump Co.  
OPENING MACHINERY—  
Saco-Lowell Shops.  
Whitin Machine Works.  
OVERSEAMING AND OVEREDGING  
MACHINES—  
Morrow Machine Co.  
OVERHAULERS—  
Southern Spindle & Flyer Co.  
Atlantic Textile Co.  
PACKING (LEATHER)—  
Charlotte Leather Belting Co.  
Graton & Knight Mfg. Co.  
PAINTS—  
Chaffee Co., Thos. K.  
Detroit Graphite Co.  
Du Pont de Nemours & Co.  
Johnson Paint Co.  
Peaslee-Gaulbert Co., Inc.  
Southern Cotton Oil Co.  
Tripod Paint Co.  
Wadsworth, Howland & Co.  
PAPER AND PAPER BOARDS—  
Diamond State Fibre Co.  
PATENTS—  
Siggers & Siggers.  
PICKERS, LEATHER—  
Garland Mfg. Co.  
Graton & Knight Mfg. Co.  
PICKER STICKS—  
Brown Bros. Co.  
Ivey Mfg. Co.  
Garland Mfg. Co.  
PIPE AND FITTINGS—  
Parks-Cramer Co.  
Scalfe, W. B., & Sons.  
PORTABLE ELEVATORS—  
Link-Belt Company.  
Portable Machinery Co.  
POWER TRANSMISSION  
MACHINERY—  
Abell-Howe Co.  
Allis-Chalmers Mfg. Co.  
General Electric Co.  
Hyatt Roller Bearing Co.  
Link-Belt Company.  
Morse Chain Company.  
Westinghouse Electric & Mfg. Co.  
Odell Hardware Co.  
Wairaven Co.  
PREPARATORY MACHINERY  
(COTTON)—  
Mason Machine Works.  
Saco-Lowell Shops.  
Sargent's Sons Corp., C. G.  
Whitin Machine Works.  
PRESSES—  
Butterworth, H. W., & Sons Co.  
Collins Bros.  
Saco-Lowell Shops.  
PRESSES (BALING)—  
Lovinggood Co., The.  
PRINTERS—  
Clark Publishing Co.  
PEROXIDE OF SODIUM—  
Roessler & Haaslaacher.  
PEROXIDE OF HYDROGEN—  
PICKERS AND LAPPERS—  
PICKERS AND LAPPERS—  
Whitin Machine Works.  
PULLEY COVERING—  
Graton & Knight Mfg. Co.  
PULLEYS—  
—See Transmission Machinery.  
PUMPS—  
Allis-Chalmers Mfg. Co.  
De Laval Steam Turbine Co.  
(Boiler Feed; also Centrifugal.)  
Farnsworth Co.  
Rumsey Pump Co.  
Sydnor Pump & Well Co.  
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PLANTS—  
Norwood Engineering Co.  
Scalfe, Wm. B., & Sons.  
QUILLERS—  
Universal Winding Co.  
Whitin Machine Works.  
QUILL CLEANERS—  
Terrell Machine Co.  
REGULATORS—  
Powers Regulator Co.  
RING TRAVELERS—  
Allen Mfg. Co.  
National Ring Traveler Co.  
Carter, A. B.  
Victor Ring Traveler Co.  
U. S. Ring Traveler Co.  
RING SPINNING FRAMES—  
Whitin Machine Works.  
Saco-Lowell Shops.  
ROLLS—  
The Whitin Machine Works.  
Metallic Drawing Roll Co.  
Saco-Lowell Shops.  
Southern Spindle & Flyer Co.  
ROLLER BEARINGS—  
Hyatt Roller Bearing Co.  
ROLL CALENDARING MACHINES—  
Simplex Roll Calendar Machine Co.  
ROLLER COVERINGS—  
Graton & Knight Mfg. Co.  
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Atlanta Gas Light Co.  
Wairaven Co.  
ROPE TRANSMISSION—  
Link-Belt Company.  
ROVING CANS AND BOXES—  
Lovinggood Co., The.  
American Vulcanized Fibre Co.  
Rogers Fibre Co.  
Standard Fibre Co.  
Wilson Co.  
Carter, A. B.  
Diamond States Fibre Co.  
ROVING MACHINERY—  
Whitin Machine Works.  
Saco-Lowell Shops.  
RUBBER STAMPS—  
Dixie Seal & Stamp Co.  
SADDLES—  
Dixon Lubricating Saddle Co.  
SANITARY EQUIPMENT—  
Kaustine Co.  
Pure Sanitary Drinking Fountain Co.  
Vogel Co., Joseph A.  
SANITARY FOUNTAINS—  
—See Drinking Fountains.  
SCALES—  
American Kron Scale Co.  
Lovinggood Co., The.  
Toledo Scale Co.  
SCALLOP MACHINES—  
Morrow Machine Co.  
SCOURING POWDERS—  
Champion Chemical Co.  
Dobbins Soap Mfg. Co.  
SEALS—  
Dixie Seal & Stamp Co.  
SEWING MACHINES—  
Morrow Machine Co.  
SEPARATORS—  
Draper Corporation.  
SHAFTING, HANGERS, ETC.—  
—See Power Transmission Machinery.  
SHELL STITCH MACHINES—  
Morrow Machine Co.  
SCHOOLS—  
N. C. State College of A. & E.  
SECOND-HAND MACHINERY—  
Hunter Machinery Co.  
Textile Machinery Co.  
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Chattanooga Sewer Pipe Works.  
Kaustine Co.  
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Draper Corporation.  
Shambow Shuttle Co.  
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Arabol Mfg. Co.  
Bosson & Lane.  
Carolina Sizing & Chemical Co.  
Corn Products Refining Co.  
United Chemical Products Co.  
John P. Marston.  
H. A. Metz & Co., Inc.  
A. Klipstein & Co.  
New Brunswick Chemical Co.  
Seydel Mfg. Co.  
Spartan Sizing Compound Co.  
Jacques, Wolf & Co.  
Wm. C. Robinson & Sons Co.  
L. Sonneborn Sons Co.  
National Gum & Mica Co.  
Masury Young Co.  
Hine Bros.  
SILENT CHAIN DRIVE—  
Link-Belt Company.  
Morse Chain Company.  
SOFTENERS (COTTON)—  
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Arabol Mfg. Co.  
Bosson & Lane.  
New Brunswick Chemical Co.  
Jacques Wolf & Co.  
Robinson, Wm. C., & Sons Co.  
Sonneborn, L., & Sons Co.  
Metz, H. A., & Co., Inc.  
Seydel Mfg. Co., The.  
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David Lupton's Sons, Inc.  
Wilson Co.  
Southern Engineering Co.  
STENCILS—  
Dixie Seal & Stamp Co.  
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Saco-Lowell Shops.  
Textile-Finishing Machinery Co.  
SLASHER AND CLEARER CLOTHS—  
Hitchcock Co., F. C.  
SOAPS—  
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Dobbins Soap Mfg. Co.  
Klipstein & Co., A.  
Robinson, Wm. C., & Sons Co.  
Seydel Mfg. Co., The.  
United Chemical Products Co.  
Sonneborn, L., Sons Inc.  
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—See Cotton Softeners.  
SPINDLES—  
Allen Spindle Corp.  
Draper Corporation.  
Saco-Lowell Shops.  
Southern Spindle & Flyer Co.  
Whitin Machine Works.  
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Dixon Lubricating Saddle Co.  
SPINNING RINGS—  
Allen Machinery Corporation.  
Draper Corporation.  
Pawtucket Spinning Ring Co.  
Whitin Machine Works.  
Whitnaville Spinning Ring Co.  
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American Textile Banding Co.  
Barber Mfg. Co.  
Georgia Webbing and Tape Co.  
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—See Bobbins, Spools, Shuttles.  
SPROCKETS, SILENT CHAIN—  
Link-Belt Company.  
Morse Chain Co.  
STARCH—  
—See Sizing, Starch and Gum.  
SPOOLERS—  
Draper Corporation.  
Saco-Lowell Shops.  
Whitin Machine Works.  
STEAM TRAPS—  
Farnsworth Co.  
Powers Regulator Co.  
SOLDERLESS CONNECTIONS  
(FRANKEL)—  
Westinghouse Electric & Mfg. Co.  
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SWITCH BOXES—  
Chicago Fuse Mfg. Co.  
TACHOMETERS—  
Veeder Mfg. Co.  
TANKS—  
Lombard Iron Works.  
Southern Engineering Co.  
Walsh & Weldner Co.  
TELEPHONES—  
Screw Machine Products Co.  
TAPES, BRAIDS AND EDGINGS—  
American Textile Banding Co.  
Barber Mfg. Co.  
Georgia Webbing & Tape Co.  
TEXTILE MACHINERY SPECIALTIES—  
Greenville Textile Supply Co.  
Sullivan Hardware Company.  
Cocker Machine and Foundry Co.  
Odell Hardware Co.  
THERMOMETERS—  
Powers Regulator Co.  
TEMPLES—  
Draper Corporation.  
TESTING APPARATUS (FABRICS)—  
Perkins, B. F., & Son, Inc.  
Scott & Co., H. L.  
TRANSFER STAMPS—  
Kaumagraph Co.  
TRAPS—  
—See Steam Traps.  
TOWERS—  
Southern Engineering Co.  
TRANSMISSION MACHINERY—  
Allis-Chalmers Mfg. Co.  
General Electric Co.  
Hyatt Roller Bearing Co.  
Link-Belt Company.  
Morse Chain Co. (Silent Chain).  
Perkins, B. F., & Sons, Inc.  
Tolhurst Machine Works.  
Westinghouse Electric & Mfg. Co.  
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J. P. O'Connell.  
TOILET PAPER—  
Dixie Paper & Box Co.  
TOILETS—  
Kaustine Co.  
Vogel Co., Jos. A.  
TOOLS—  
Montgomery & Crawford.  
Wairaven Co.  
TOWERS—  
Southern Engineering Co.  
TRANSMISSION SILENT CHAIN—  
Link Belt Co.  
Morse Chain Co.  
TRUCKS (LIFTING)—  
Westinghouse Electric & Mfg. Co.  
TRUCKS (MILL)—  
American Vulcanized Fibre Co.  
Diamond States Fibre Co.  
Standard Fibre Co.  
TURBINES (STEAM)—  
Allis-Chalmers Mfg. Co.  
De Laval Steam Turbine Co.  
General Electric Co.  
Westinghouse Electric & Mfg. Co.  
TWISTING MACHINERY—  
Allen Machinery Corp.  
Draper Corporation.  
Saco-Lowell Shops.  
Whitin Machine Works.  
UNDERWEAR MACHINES—  
Morrow Machine Co.  
VACUUM TRAPS—  
Farnsworth Co.  
VALVES—  
Powers Regulator Co.  
VENTILATING APPARATUS—  
American Moistening Co.  
Carrier Engineering Corporation.  
General Electric Co.  
Ilg Electric & Ventilating Co.  
Parks-Cramer Co.  
Perkins, B. F., & Son, Inc.  
Proctor & Schwartz, Inc.  
Sargent's, C. G., Sons.  
Tolhurst Machine Works.  
WALL COATING—  
Sonneborn, L., Sons, Inc.  
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Cocker Machine & Foundry Co.  
Draper Corporation.  
WARP STOP MOTION—  
Crompton & Knowles Loom Works.  
Draper Corporation.  
WARP TYING MACHINERY—  
Barber-Colman Co.  
WASHERS (FIBRE)—  
American Vulcanized Fibre Co.  
WASHERS (LEATHER)—  
Graton & Knight Mfg. Co.  
WATCHMAN'S CLOCKS—  
Eco Clock Co.  
WATER INTAKE SCREENS—  
Link-Belt Company.  
WATER FILTERS—  
Norwood Engineering Co.  
WATER PURIFIERS—  
Norwood Engineering Co.  
WELDING OUTFITS—  
General Electric Co.  
Wairaven Co.  
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Arabol Mfg. Co.  
Atlantic Dyestuff Co.  
Bosson & Lane.  
Hine Bros.  
Marston, John P.  
Klipstein, A., & Co.  
Metz, H. A.  
Newport Chemical Works.  
Seydel Mfg. Co., The.  
Jacques, Wolf & Co.  
Southern Dyestuffs & Chemical Co.  
Sonneborn, L., Sons Co.  
Campbell, John, & Co.  
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Allis-Chalmers Mfg. Co.  
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Smith, S. Morgan, Co.  
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Sydnor Pump & Well Co.  
WINDERS—  
Crompton & Knowles Loom Works.  
Saco-Lowell Shops.  
Universal Winding Co.  
WINDOWS—  
David Lupton's Sons, Inc.  
Southern Engineering Co.  
WHIZZERS—  
Tolhurst Machine Works.  
East Jersey Pipe Co.  
YARN CONDITIONING MACHINES—  
—See Conditioning Machines.  
YARN TESTERS—  
Scott & Co., H. L.

# 110 Machines Placed In Southern Mills in 14 Months



Monarch Bobbin Cleaner

Monarch Cotton Mills, Union, S. C.....	2 machines	Mills Mill, Greenville, S. C.....	1 machine
Eagle & Phenix Mills, Columbus, Ga....	4 machines	Brandon Mills, Greenville, S. C.....	1 machine
Arcadia Mills, Spartanburg, S. C.....	1 machine	Woodside Mills, Greenville, S. C.....	1 machine
Chiquola Mfg. Co., Honea Path, S. C.....	1 machine	Dunean Mills, Greenville, S. C.....	1 machine
Orr Cotton Mills, Anderson, S. C.....	1 machine	Lockhart Mills, Lockhart, S. C.....	2 machines
Victor-Monaghan Mills:		Henrietta Mills, Caroleen, N. C.....	1 machine
Greer Plant, Greer, S. C.....	1 machine	Easley Cotton Mills, Easley, S. C.....	2 machines
Victor Plant, Greer, S. C.....	2 machines	Dixie Cotton Mills, LaGrange, Ga.....	1 machine
Ottaray Plant, Union, S. C.....	1 machine	Thatcher Spinning Co., Chattanooga, Tenn	1 machine
Jonesville Plant, Jonesville, S. C....	1 machine	Dillon Mills, Dillon, S. C.....	1 machine
Apalache Plant, Greer, S. C.....	1 machine	Brookford Mills, Brookford, N. C.....	1 machine
Seneca Plant, Seneca, S. C.....	1 machine	Aragon Cotton Mills, Aragon, Ga.....	1 machine
Monaghan Plant, Greenville, S. C....	2 machines	Tucapau Mills, Tucapau, S. C.....	2 machines
Walhalla Plant, Walhalla, S. C.....	1 machine	Chadwick-Hoskins Co., Charlotte, N. C....	1 machine
Coosa Manufacturing Co., Piedmont, Ala...	2 machines	Darlington Mfg. Co., Darlington, S. C.....	1 machine
Inman Mills, Inman, S. C.....	1 machine	The Trion Co., Trion, Ga.....	1 machine
Griffin Mfg. Co., Griffin, Ga.....	1 machine	The Virginia Cotton Mills, Graham, N. C.	1 machine
Lanett Cotton Mills, West Point, Ga....	2 machines	Edna Cotton Mills, Reidsville, N. C.....	1 machine
Hartsville Cotton Mills, Hartsville, S. C...	1 machine	Wearwell Mills, Draper, N. C.....	1 machine
Greenwood Cotton Mills, Greenwood, S. C.	2 machines	The Borden Mfg. Co., Goldsboro, N. C....	2 machines
Pacific Mills, Columbia, S. C.....	1 machine	Unity Spinning Mills, LaGrange, Georgia	1 machine
Grendel Mills No. 2, Greenwood, S. C....	1 machine	Lancaster Sotton Mills, Lancaster, S. C.....	2 machines
Lane Cotton Mills, New Orleans, La.....	1 machine	Wamsutta Mills, New Bedford, Mass.....	1 machine
Belton Mills, Belton, S. C.....	3 machines	Warren Mfg. Co., Warrenville, S. C.....	1 machine
Marion Manufacturing Co., Marion, S. C...	1 machine	John P. King Mfg. Co., Augusta, Ga.....	2 machines
Dallas Manufacturing Co., Huntsville, Ala.	1 machine	Meritas Mills, Columbus, Ga.....	1 machine
South Texas Cotton Mills, Brenham, Texas	1 machine	Mobile Cotton Mills, Mobile, Ala.....	1 machine
Pelzer Mfg. Co., Pelzer, S. C.....	6 machines	McComb Cotton Mills, McComb, Miss.....	1 machine
Saxon Mills, Spartanburg, S. C.....	1 machine	Selmo Cotton Mills, Selma, N. C.....	1 machine
Louisville Cotton Mills, Louisville, Ky....	1 machine	The Grendel Mills No. 1, Greenwood, S. C.	1 machine
Springstein Mills, Chester, S. C.....	1 machine	Knoxville Cotton Mills, Knoxville, Tenn...	1 machine
Itasca Cotton Mills Co., Itasca, Texas....	1 machine	Blue Buckle Cotton Mills, Rock Hills, S. C.	1 machine
Rosemary Mfg. Co., Roanoke Rapids, N. C.	1 machine	Arcade Cotton Mills, Rock Hill, S. C.....	1 machine
Perkins Hosiery Mills, Columbus, Ga.....	1 machine	Pacific Mills, Columbia, S. C.....	5 machines
Baldwin Cotton Mills, Chester, S. C.....	2 machines	Myers Mills, Inc., Gastonia, N. C.....	1 machine
Pacolet Manufacturing Co., Pacolet, S. C...	2 machines	Ware Shoals Mfg. Co., Ware Shoals S. C...	3 machines
Swift Manufacturing Co., Columbus, Ga...	2 machines	Henrietta Mills No. 2, Caroleen, N. C....	1 machine
Muscogee Manufacturing Co., Columbus, Ga.	1 machine	Norris Cotton Mills Co., Catechee, S. C...	1 machine

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UNION SOUTH CAROLINA



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### Odell Mill Supply Company

QUALITY, Service and a Square Deal is our policy. The large number of satisfied customers we have, is our most valued asset. We want to add others to our list of 1920. "Once a Customer, Always a Customer," is a very gratifying experience of ours. "Get it at Odell's Where Quality Tells" is applicable to the Mill Supply Department as well as to every other department of our business.

**ODELL MILL SUPPLY COMPANY**

GREENSBORO, N. C.

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on Request

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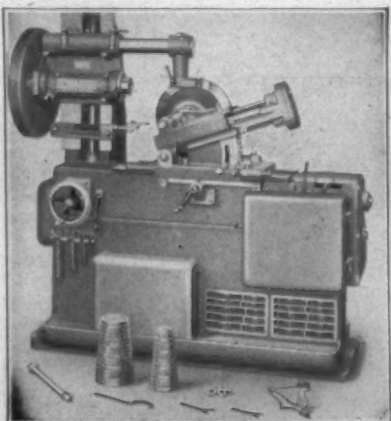
SOLE SELLING AGENTS

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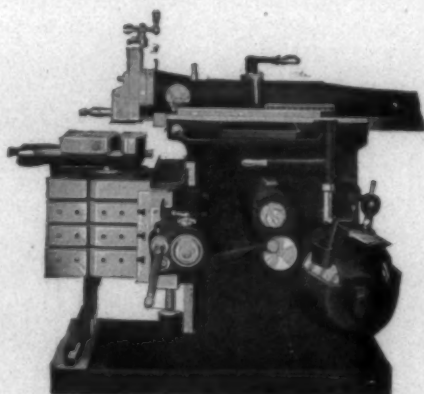
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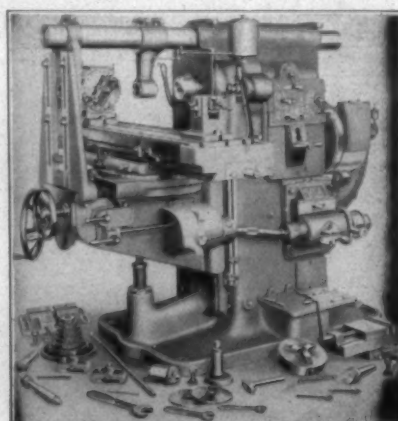
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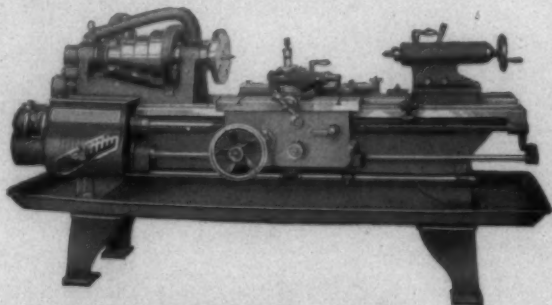
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Automatic Gear Cutting Machine



HENDEY Crank Shaper



BROWN & SHARPE  
Universal Milling Machine



HENDEY Engine Lathe

We reproduce herewith cuts of four most commonly used tools in the modern Machine Shop. These machines represent, however, more than the name applied to them according to the nature of the work they are supposed to accomplish. The names BROWN & SHARPE and HENDEY are known all over the world as representing the best in their particular field. They have gained the CONFIDENCE of the practical engineer and machinist through years of faithful service—Dependable service—They have met the demands of the most exacting. Is it not a safe practice then, when buying machines, to buy by name? A request brings catalog showing their full line—May we send yours?

**The Walraven Company**

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Our Looms Produce the Highest Quality of Fabrics at Lowest Cost

We make automatic looms for all manner of textile fabrics. Plain or fancy, coarse or fine.

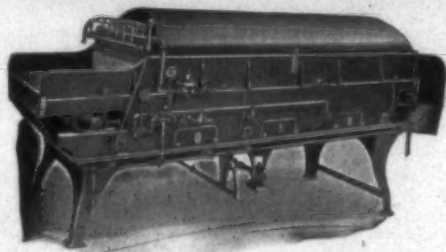


**THE STAFFORD COMPANY**  
READVILLE, MASS.



J. H. MAYES, Southern Agent, American Building CHARLOTTE, N. C.

## The Yarn Conditioning Machine



The practical means for setting twist and effectively preventing kinky filling.  
**C. G. SARGENTS SONS CORPORATION**  
GREENVILLE, MASS.

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**WE-FU-GO AND SCAIFE**

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FOR BOILER FEED AND  
ALL INDUSTRIAL USES

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Practically all of the space for the Fourth Southern Textile Exposition at Greenville, South Carolina, October 18th to 23rd, has been sold.

Greenville will accommodate visitors comfortably in private homes when the hotels overflow, if applications are made in advance to the Housing Committee.

Greenville Association of Commerce has arranged informal entertainments complimentary to members of Southern Textile Association and the exhibitors.

You are cordially invited to be present.

*Southern Textile Exposition, Inc.*  
*Greenville, S. C.*

## Every Textile Drying Need

Proctor dryers are built in various types for drying the following: Cotton, bleached or dyed; cotton linters; fur; hair; rags, wool; waste, silk; wool, pulled; cotton yarn; mercerized yarn; silk yarn; wool yarn; worsted yarn; canvas, waterproof; cotton cloth; knitted fabrics; shrinking cloth; silk; toweling; tubular goods, woolen; underwear; wool cloth; stockings; half hose; woolen socks; woolen hats.

**PROCTOR AND SCHWARTZ, INC.**  
Formerly Phila. Textile Mach. Co., Philadelphia  
H. G. MAYER, Realty Building, Charlotte

**"Proctor"**  
**DRYERS**

## Home

"The place we are treated the best and grumble the most." Good treatment comes from those closely related to us. We grumble at the little vexities of life but most of the dissatisfaction comes from the lack of the conveniences of modern home equipment. A trip to the back yard—the location of the privy—in a great many rural settlements—always a disagreeable trip—in the summer the annoying clusters of flies first in the outdoor privy—then on baby's rattle—or on the food. Food we must take into our stomachs and with it all the filth that has been collected by the fly in its usual haunt—the outdoor privy—and deposited on the food. Babies cannot use precaution—child mortality—from fecal-born disease—is astounding—

All this traced to the inconvenience—insanitary—health menacing outdoor privy is certainly one of the causes of grumbling—whether we realize it or not—it is an unreckoned-with factor.

Modern indoor toilets do not necessarily require running water—nor long sewer lines. Sanitary science and invention has enabled Kaustine System Toilets to be installed in many places where water was not available.

Today when Homes should in reality be real Homes—Kaustine Systems can help materially—yet at moderate cost—make them Real.

Catalogue H—a practical treatise on modern sanitation—both with and without running water—is available on request.

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